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REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 4, 1936.

*Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.*

THE FIRST PART OF THE WEEK WAS HOT AND DRY, BRINGING TO AN END THE HOTTEST JULY EVER KNOWN FOR MONTANA SINCE WEATHER BUREAU RECORDS BEGAN IN 1895. COMPARED WITH PREVIOUS YEARS, THE PERIOD MAY TO JULY THIS YEAR WAS THE WARMEST AND SECOND DRIEST OF ANY SIMILAR 3-MONTH PERIOD ON RECORD. ONLY MAY TO JULY, 1919, HAVE BEEN DRIER. FIGURES ARE LARGELY INCOMPLETE, BUT A SUFFICIENT NUMBER OF REPRESENTATIVE REPORTS HAS BEEN RECEIVED TO INDICATE AT THIS TIME THAT THE AVERAGE PRECIPITATION FOR JULY WILL BE LESS THAN 50 PER CENT OF NORMAL, AND THAT THE AVERAGE FOR THE PERIOD, MAY TO JULY, INCLUSIVE, WILL BE AROUND 57 PER CENT OF NORMAL.

THE LAST HALF OF THE WEEK WAS MUCH COOLER, AND BROUGHT LIGHT TO HEAVY SHOWERS TO ALMOST ALL PARTS OF THE STATE. HEAVIEST RAINFALL OCCURRED IN THE NORTHERN SECTION EAST OF THE DIVIDE. WHILE THE SHOWERS INTERRUPTED HAYING, HARVESTING, AND THRESHING, THEY WERE HIGHLY BENEFICIAL TO PASTURES, RANGES, POTATOES, BEETS, LATE GRAIN AND FEED CROPS, AND GARDENS. SUMMER-FALLOWED SOILS RECEIVED SOME MOISTURE, BUT MUCH MORE WILL BE NEEDED BETWEEN NOW AND SEEDING TIME, IF MUCH SEED IS TO BE PLANTED, AND IF THAT WHICH IS PLANTED IS TO GET A START. SOME UNSTACKED HAY WAS DAMAGED.

HARVESTING OF WHEAT HAS LARGELY BEEN COMPLETED. A LITTLE REMAINS GREEN OR RIPENING IN SCATTERED DISTRICTS IN THE WEST AND EXTREME NORTHEAST. WHEAT HAS BEEN LIGHT IN WEIGHT AND YIELD, BUT GENERALLY HAS A HIGH PROTEIN CONTENT. ASIDE FROM THE EXTREME NORTHEAST, THERE HAS BEEN ALMOST NO GRAIN TO HARVEST ON THE DRYLANDS OF THE EAST. IN THE CENTRAL SECTION, PERHAPS 25 TO 50 PER CENT — IN MANY PLACES NOTHING — OF THE ACREAGE ORIGINALLY SOWN ON DRYLANDS WILL BE HARVESTED. IN MOST PLACES WHEAT HAS NOT YIELDED MORE THAN 1 TO 5 BUSHELS AN ACRE.

IRRIGATED CROPS MADE BETTER GROWTH THE LAST HALF OF THE WEEK. CONSIDERABLE IRRIGATED GRAIN HAS BEEN HARVESTED, WITH AVERAGE YIELDS EXCEPT WHERE DAMAGED BY GRASSHOPPERS OR WHERE THE SUPPLY OF WATER HAD BEEN CURTAILED EARLY IN THE SEASON. THE SECOND CROP OF ALFALFA, HOWEVER, HAS BEEN MOSTLY LIGHT. SUGAR BEETS HAVE CONTINUED TO MAKE GOOD PROGRESS. RAINS HELPED POTATOES AND GARDENS. BEANS ARE REPORTED IN GOOD CONDITION. MUSTARD IS BEING HARVESTED. THRESHING OF PEAS CONTINUED WITH VARIABLE RESULTS.

GRASSHOPPER DAMAGE CONTINUED TO DECREASE, BUT FALSE CHINCH BUGS WERE REPORTED DOING CONSIDERABLE DAMAGE TO POTATOES, CORN, AND GARDENS.

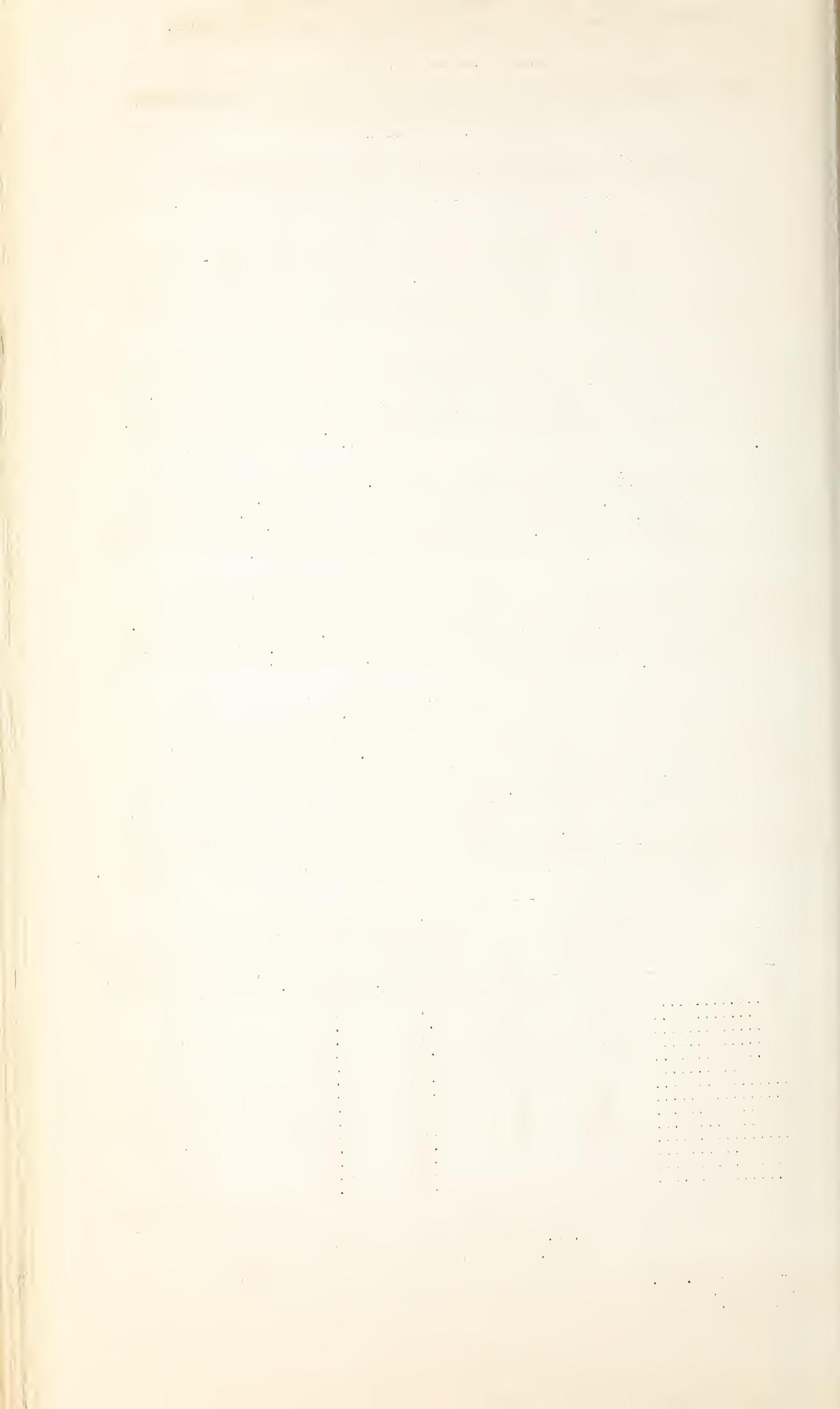
PASTURES AND RANGES WERE HELPED SOME BY RAINS AT THE CLOSE OF THE WEEK. PRINCIPAL RELIEF CAME THROUGH REPLENISHMENT OF STOCK WATER. SEVERAL AREAS REPORTED HAULING OF WATER FOR SHEEP EARLIER IN THE WEEK. MUCH FEED IS BEING SHIPPED IN TO THE DROUGHT SECTIONS, AND EVERY EFFORT IS BEING MADE TO SAVE AS MUCH ROUGHAGE AS POSSIBLE FOR MIXING WITH CONCENTRATES. DAIRY PRODUCTION HAS FALLEN OFF WITH THE DRYING UP OF PASTURES. WHILE THE CONDITION OF LIVESTOCK REMAINED UNCHANGED IN THE WEST, FURTHER DECLINE WAS REPORTED FOR THE EAST. HEAVY MOVEMENT OF LIVESTOCK CONTINUES FROM THE DROUGHT SECTIONS. SOME EASTERN SECTIONS HAVE REDUCED RANGE STOCK AS MUCH AS 90 PER CENT. CONSIDERABLE EASTERN MONTANA LIVESTOCK ARE BEING MOVED TO THE EXCELLENT GRASS SECTIONS IN THE WESTERN PART OF THE STATE. THE BULK OF LIVESTOCK, HOWEVER, MOVED FROM THE DROUGHT SECTIONS IS BEING SOLD.

WEEKLY TEMPERATURE AND PRECIPITATION DATA

	TEMPERATURE		TOTAL PRECIPITATION		SUNSHINE
	HIGHEST	LOWEST	THIS WEEK.	SINCE APR. 1	PERCENT OF POSSIBLE
BILLINGS	99	50	T	4.61	*
BOZEMAN	90	49	0.01	4.46	*
CUT BANK	97	43	1.10	4.94	*
GLASGOW	103	52	0.29	3.90	*
GLENDIVE	107	55	0.12	4.79	*
GREAT FALLS	98	48	0.20	4.40	*
HAVRE	102	54	0.85	3.38	78
HELENA	94	45	0.08	4.93	71
KALISPELL	94	48	0.28	4.18	88
LEWISTOWN	95	48	0.16	6.06	*
MALTA	104	51	0.44	3.17	*
MILES CITY	102	58	0.04	2.54	60
MISSOULA	98	58	0.06	4.66	84
POPLAR	105	51	0.39	3.73	*

* NO DATA.

W. E. MAUGHAN, WEATHER BUREAU,
JAY G. DIAMOND, DIVISION OF CROP AND LIVESTOCK
ESTIMATES.



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THE FOLLOWING COUNTY SUMMARIES OF CROP CONDITIONS FOR WEEK ENDING AUGUST 1, 1936,
ARE FURNISHED THROUGH THE COURTESY OF DIRECTOR J. C. TAYLOR, MONTANA STATE
EXTENSION SERVICE..

BEAVERHEAD: LIGHT TO HEAVY SHOWERS SCATTERED OVER THE COUNTY. HIGH TEMPERATURES PREVAILED. WILD HAY CROP GOOD; LARGER CROP SECOND CUTTING ALFALFA THAN IN 1935. RANGES STILL HOLDING UP AND HAVE BEEN AIDED THE PAST WEEK WITH RAINS. SOME DROUGHT STOCK IS BEING PURCHASED AND MOVED INTO THE COUNTY. LOCAL STOCK IN EXCELLENT SHAPE. LABOR SITUATION NORMAL. VERY LITTLE LOSS FROM HOPPERS.

BIG HORN: CONTINUED DRY AND HOT WEATHER HAS PREVAILLED DURING THE PAST WEEK. COMBINING OF WINTER WHEAT ABOUT DONE, WITH REPORTED YIELDS VARYING FROM ONE TO FIVE BUSHELS PER ACRE ON NON-IRRIGATED. THRESHING UNDER WAY IN THE VALLEY WITH DISCOURAGING YIELDS REPORTED. SECOND CUTTING OF HAY BEING CUT. RANGE IS BECOMING SHORTER EVERY DAY. LIVESTOCK IN FAIR CONDITION. SHIPMENTS TO BOTH BILLINGS AND EASTERN MARKETS CONTINUING. LABOR ABSORBED BY W.P.A. PROJECTS, ONE OF WHICH IS THE BIG HORN COUNTY COURT HOUSE, WHICH STARTED THIS WEEK.

BLAINE: WEATHER CONDITIONS CONTINUE HOT AND DRY DURING THE WEEK. NO PRECIPITATION SINCE SATURDAY, JULY 25TH, AT WHICH TIME A LIGHT SHOWER FELL IN THE WEST END OF THE COUNTY. SOME HARVESTING BEING DONE ON DRY LAND, WITH YIELDS OF WHEAT RUNNING FROM TWO TO THREE BUSHELS. HARVEST OF SMALL GRAINS IN IRRIGATED SECTION WELL UNDER WAY. SECOND CUTTING OF ALFALFA ALSO UNDER WAY, WITH FAIR YIELDS REPORTED. IRRIGATED CROPS DOING VERY NICELY. LIVESTOCK SITUATION SERIOUS. SPRINGS AND CREEKS ARE DRYING UP RAPIDLY. WATER NOW BEING HAULED TO SHEEP WITH TRUCKS. HEAVY SHIPMENTS OF STOCK ARE BEING MADE TO MARKET.

CARBON: WHEAT CROPS AND SOME OAT CROPS BEING HARVESTED IN THE JOLIET AND CLARKS FORK VALLEY AREAS. SECOND CROP OF ALFALFA IS MAKING FAIR PROGRESS IN EAST PORTION OF THE COUNTY. HOPPER POISON MIXING PLANT IS CLOSED DOWN AT JOLIET AND HOPPER DAMAGE SEEMS TO BE CONSIDERABLY LESSENED. MIXING PLANT STILL OPEN IN ROBERTS, BELFRY, AND LUTHER AREAS. THE PEAK OF THE HOPPER DAMAGE HAS NOT YET BEEN REACHED IN THE LUTHER TERRITORY. MUCH LIVESTOCK IS BEING TRUCKED TO BILLINGS MARKET.

CASCADE: NO RELIEF FROM THE HOT DRY WEATHER OF THE PAST TWO WEEKS. THE HARVESTING OF SMALL GRAINS ON DRY LAND IS WELL UNDER WAY, WITH A WIDE RANGE OF YIELDS REPORTED. A VERY FEW FIELDS, IN ONE PARTICULAR AREA IN THE COUNTY, WHERE A RAIN IN AUGUST 1935 IMPROVED MOISTURE CONDITIONS, ARE RETURNING FAIR YIELDS. MOST OF THE WHEAT FIELDS IN THE BALANCE OF THE COUNTY, HOWEVER, THAT ARE GOOD ENOUGH TO HARVEST, ARE RETURNING YIELDS FROM 1 TO 5 BUSHELS PER ACRE. FARMERS ARE HARVESTING EVERYTHING WORTH WHILE. CREEKS, SPRINGS, AND WELLS IN THE SOUTHEASTERN PART OF THE COUNTY ARE PRACTICALLY ALL DRIED UP. CRICKETS AND GRASSHOPPERS ARE CONTINUING TO DAMAGE THE REMAINING GRASS LEFT ON RANGES, AND HOPPERS ARE STARTING TO MOVE INTO THE IRRIGATED SECTIONS. CROPS ON IRRIGATED LAND CONTINUE TO DO WELL AND SHOW PROMISE OF FAIR TO GOOD YIELDS. FEED SUPPLIES IN THE COUNTY ARE NOT SUFFICIENT TO TAKE CARE OF THE NEEDS OF THE LIVESTOCK, AND LARGE NUMBERS ARE CONTINUING TO MOVE OUT OF THE COUNTY, EITHER TO FEED OR TO MARKET. MANY FOREST FIRES IN THIS PART OF MONTANA ARE REPORTED TO HAVE DONE CONSIDERABLE DAMAGE TO FOREST AND GRASS. CATTLE ARE MOVING TO MARKET RAPIDLY AT UNSATISFACTORY PRICES.

CHOUTEAU: CONTINUE DRY, WITH EXTREME HOT WEATHER DURING THE ENTIRE WEEK, WITH NO PRECIPITATION. HARVEST OF SMALL GRAINS COMPLETED AND IT IS DOUBTFUL IF FARMERS WILL HARVEST THEIR SEED. MANY ABANDONED FIELDS, AND LIVESTOCK BEING TURNED INTO THE FIELDS. CORN CROP IS PRACTICALLY A FAILURE AND NON-IRRIGATED GARDENS ARE OF NO VALUE. SOME FEED SHIPPED INTO THE COUNTY AND LIVESTOCK SHIPMENTS OUT CONTINUING. VERY SMALL AMOUNT OF MOISTURE IN THE SUMMER-FALLOW GROUND, AND CONDITIONS FOR FALL SEEDING ARE VERY POOR. FALL SEEDING WILL BE CURTAILED UNLESS ADDITIONAL MOISTURE IS RECEIVED BETWEEN NOW AND SEEDING.

CUSTER - POWDER RIVER: SOMEWHAT COOLER FOREPART OF WEEK. PRECIPITATION 0. IRRIGATED HAY AND BEETS DOING BETTER SINCE GRASSHOPPERS ARE DISAPPEARING. WATER SUPPLY IS RUNNING LOW, BUT MAY LAST THROUGH THE SEASON. FALSE CHINCH BUG DAMAGE HAS BEEN SEVERE ON POTATOES, CORN, AND GARDENS. RANGE CONDITIONS UNCHANGED. LARGE NUMBERS OF CATTLE ARE CHANGING HANDS FOR IMMEDIATE DELIVERY. CONDITION OF MANY HERDS DETERIORATING, AND OPERATORS WHO PLANNED TO HOLD UNTIL FALL ARE NOW SELLING. EWES AND EARLY LAMBS GOING FAIRLY WELL; LATE LAMBS ARE POOR. NOT MANY SHEEP BEING SOLD, AS THERE ARE FEW BUYERS.

DANIELS: NO PRECIPITATION. HOT AND DRY. HARVESTING IN FULL SWING. WHEAT AVERAGING 2 TO 3 BUSHELS PER ACRE; A FEW FIELDS GOING AS HIGH AS 8. MUCH OF IT IS NOT WORTH HARVESTING. MANY FARMERS HAVE RIGGED OUT STRAW-SAVING DEVICES ON COMBINES AND IMPROVISED ATTACHMENTS FOR COMBINE PLATFORMS. HEADING IS COMMON. LIVESTOCK IN GOOD CONDITION. MANY ARE GRAZING OFF POORER GRAIN FIELDS.

DAWSON: DRY - SEASONABLY HOT. OCCASIONAL FIELDS OF CORN CONTINUE TO WITHSTAND DROUGHT AND WILL PROVIDE SOME FEED, ALTHOUGH HOPPERS IN SOME AREAS ARE BEGINNING TO DAMAGE IT. THE BULK OF THE FIELDS, HOWEVER, WILL PRODUCE VERY LITTLE. SOME SMALL GRAIN FIELDS HAVE BEEN GONE OVER FOR FEED, BUT THE TOTAL QUANTITY IS SMALL. SOME HEADING HAS ALSO BEEN IN PROGRESS, AND SEED IS BEING HARVESTED ON SCATTERED AREAS. FIELD WORK ON MANY PLACES, HOWEVER, IS AT A COMPLETE STANDSTILL. MOVEMENT OF STOCK IS SOMEWHAT HEAVIER, AND WITH FAILURE OF THISTLES TO SHOW ANY APPRECIABLE GROWTH FOLLOWING THE MOISTURE OF THREE WEEKS AGO, MANY GROWERS ARE MAKING PLANS TO DISPOSE OF THE BULK OF THEIR HOLDINGS. GRASSHOPPERS CONTINUE TO DAMAGE GRASS AND CROPS.

FALLON - CARTER: NO PRECIPITATION. HOT, SULTRY WEATHER. ALL CROPS ABANDONED WITH THE EXCEPTION OF A FEW FIELDS OF CORN. LIVESTOCK CONTINUES TO MOVE RAPIDLY, WITH CONSIDERABLE OUTSIDE BUYERS IN THE AREA. EVERY FARMER AND STOCKMAN IN NEED OF AND LOOKING FOR WORK. RED BUTTES IRRIGATION PROJECT STARTED, WITH APPROXIMATELY 60 MEN WORKING.

FLATHEAD: GROWING CONDITIONS POOR DUE TO HIGH TEMPERATURES. PEAS NOW BEING THRESHED. YIELDS OF AROUND 15 BUSHELS BEING REPORTED FROM THE CRESTON AREA. WINTER WHEAT BEING CUT, AND SOME FIELDS BEING COMBINED. BARLEY AND OATS MATURING RAPIDLY. POTATOES SUFFERING FROM LACK OF MOISTURE, ALTHOUGH A GOOD RAIN WOULD HELP THE YIELD IMMENSELY. SPRING WHEAT RIPENING RAPIDLY. SOME EARLY FIELDS BEING CUT. LIVESTOCK IN GOOD CONDITION.

GALLATIN: CLEAR AND WARM; TEMPERATURES HIGH. GRAIN HARVEST IN FULL SWING, INCLUDING BOTH SPRING AND WINTER WHEAT, BARLEY, AND OATS. SECOND CUTTING OF HAY STARTED, WITH PROSPECTS OF YIELDS CONSIDERABLY REDUCED OVER FIRST CUTTING DUE TO LACK OF IRRIGATION WATER. STACKING OF TIMOTHY AND CLOVER COMPLETED. SHIPMENT OF HAY FROM THE VALLEY TO DROUTH AREAS CONTINUES. GRASSHOPPER POISONING BEING CARRIED ON AS PROTECTION FOR NEXT YEAR'S CROP. VERY HEAVY SECOND BROOD OF WEBWORM MILLERS IN FLIGHT IN WESTERN PART OF COUNTY. DAIRY PRODUCTION FALLING OFF DUE TO DRYING UP OF PASTURES.

GARFIELD - PETROLEUM: NO PRECIPITATION. GENERAL GROWING CONDITIONS VERY POOR. CROPS REMAIN PRACTICALLY THE SAME THE PAST THREE OR FOUR WEEKS, WITH NO HARVEST FOR GRAIN AND VERY SMALL ACREAGES HARVESTED FOR FEED. THERE IS PRACTICALLY NO VARIATION BETWEEN THE VARIOUS CLASSES OF CROPS AS TO THEIR GENERAL PRODUCTIVITY STATUS. THE MOVEMENT OF LIVESTOCK IS CONTINUING FROM BOTH COUNTIES, CERTAIN HERDS BEING PRACTICALLY DEPLETED NOW, WHILE OTHERS WILL BE HELD SIX WEEKS TO TWO MONTHS. THE AVERAGE CONDITION OF LIVESTOCK GOING OUT IS FAIR TO GOOD.

GLACIER: NO PRECIPITATION. HOT AND DRYING WINDS. DROUTH CONTINUED UNABATED. WHEAT HARVEST BEGAN IN SOUTHERN PART OF COUNTY. ONLY BEST FIELDS BEING CUT; YIELDS RANGE FROM 2 TO 6 BUSHELS PER ACRE. TEST WEIGHT RUNNING FROM 53 TO 57 POUNDS PER BUSHEL. PROTEIN 16 TO 18%. GRASSHOPPERS AND VARIOUS OTHER INSECTS DAMAGING CROPS AND GARDENS. MORE WATER HOLES AND SPRINGS DRIED UP DURING WEEK, THUS CURTAILING USE OF RANGE IN THOSE AREAS. LIVESTOCK IN POOR TO EXCELLENT CONDITION DEPENDING ON RANGE THEY ARE BEING RUN ON.

GOLDEN VALLEY - MUSSELSEHELL: NO PRECIPITATION. NO IMPROVEMENT IN WEATHER AND CROP CONDITIONS SINCE LAST REPORT. NO CHANGE IN LIVESTOCK SITUATION.

HILL: .01 IN. PRECIPITATION RECORDED FOR THE PAST WEEK. ANOTHER WEEK OF CONTINUED HOT, DRY WEATHER WITH NO PRECIPITATION, HAS MADE CONDITIONS EXTREMELY SERIOUS. MOVEMENT OF LIVESTOCK OUT OF COUNTY CONTINUES AND PRODUCERS ARE ATTEMPTING TO LOCATE FEED SUPPLIES FOR WINTER.

JUDITH BASIN: HOT AND DRY. NO PRECIPITATION. MOST OF THE GRAIN IN THE COUNTY IS NOW BEING HARVESTED, AND YIELDS ARE GOING FROM 1 TO 7 BU.; ONE OR TWO FIELDS IN THE COUNTY WILL YIELD AS HIGH AS 10 BU. ONLY ABOUT 50% OF THE TOTAL ACREAGE WILL BE HARVESTED FOR GRAIN. MOST OF THE REMAINING ACREAGE WILL BE CUT FOR HAY OR USED AS PASTURE. HAY CROP IS PRACTICALLY ALL TAKEN CARE OF; THERE WILL BE NO SECOND CROP OF ALFALFA OR SWEET CLOVER. QUALITY OF THE GRAIN WILL BE VERY LOW SINCE CONSIDERABLE AMOUNT OF SPRING WHEAT IS MIXED WITH WINTER WHEAT AND GRASSHOPPERS ARE MIXED WITH THE THRESHED GRAIN TO A LARGE EXTENT. THE TEST WEIGHT OF THE WHEAT RANGES FROM 52 TO 57 LBS. PER BUSHEL. KERNELS VERY SHRIVELLED. WATER CONDITIONS FOR LIVESTOCK BECOMING CRITICAL. HEAVY SHIPMENT HAS NOT STARTED, BUT WILL START VERY SOON.

LAKE: THE WEATHER HAS BEEN HOT, TO THE EXTENT THAT ALL GRAINS HAVE RIPENER EARLIER THAN ORDINARY, WITH SOME SPRING WHEAT ON DRY LAND BEING SHRIVELLED. NO PRECIPITATION, AND NO WIND. HARVEST OF FALL GRAIN ABOUT COMPLETED AND SPRING GRAIN MOSTLY READY TO CUT EXCEPT A SMALL AMOUNT OF LATE SEEDINGS UNDER IRRIGATION. OTHER GRAINS ABOUT AVERAGE. SOME GOOD OAT FIELDS STANDING. NO SHORTAGE OF PASTURE AND NO PASTURE FOR RENT. HAY BEING PURCHASED AT AVERAGE OF \$10 PER TON IN THE STACK, WITH POSSIBLY ONE-THIRD OF TONNAGE IN HANDS OF DEALERS AT PRESENT. INSECT TROUBLE NOT SERIOUS.

LEWIS & CLARK - BROADWATER: GENERALLY HIGH TEMPERATURES, WHICH HAVE HAD ADVERSE EFFECT ON CROPS AND RANGE CROPS. WINTER WHEAT YIELDING ONE-HALF TO TWO-THIRDS OF EXPECTED PRODUCTION. STRAW AND STAND INDICATES HIGH YIELDS, BUT KERNELS POORLY FILLED. GRASSHOPPERS INTERFERING WITH SECOND GROWTH OF ALFALFA. HOPPER AND DROUTH DAMAGE MAKES PASTURE FOR STOCK A PROBLEM IN SOME COMMUNITIES.

MADISON - JEFFERSON: PRECIPITATION .02 INCH. SOMEWHAT COOLER AND DRYER THAN PRECEDING WEEK. HARVESTING OF MEADOW HAYS WELL ADVANCED IN MOST SECTIONS, WITH SOME ACTIVITY WITH THE SECOND CROP OF ALFALFA IN A FEW LOCALITIES. GRASSHOPPER INFESTATION REMAINS SERIOUS ALONG THE EAST SIDE OF BOTH MADISON AND JEFFERSON COUNTIES, THE UPPER RUBY VALLEY, AND VARIOUS OTHER SCATTERED LOCALITIES. MANY SECTIONS OF RANGE HAVE BEEN SEVERELY DAMAGED. HARVESTING OF THE SEED PEAS CROP IS WELL UNDER WAY AND MUCH OF THE GRAIN IS READY OR NEARLY READY TO CUT. LIVESTOCK CONDITIONS REMAIN FAVORABLE EXCEPT IN THE SECTIONS WHERE GRASSHOPPER DAMAGE TO THE RANGE HAS BEEN SERIOUS OR WHERE IT HAS BEEN EXCEPTIONALLY DRY. SEVERAL STOCKMEN FROM THE DROUTH AREAS OF THE STATE HAVE PASSED THROUGH DURING THE PAST WEEK LOOKING FOR RANGE AND HAY. ABOUT 20 CARS OF SHEEP AND CATTLE CAME INTO THE WHITEHALL AREAS DURING THE WEEK.

MISSOULA: HOT AND DRY ALL WEEK. HEAT HAS DONE SOME DAMAGE TO SPRING GRAIN ON DRY LAND. CUTTING WINTER GRAIN NEARLY COMPLETED. DRY SPRING GRAIN CUTTING WELL STARTED. IRRIGATED GRAIN NEARLY READY TO CUT. SECOND CROP ALFALFA BEING CUT NOW. SUGAR BEETS AND POTATOES MAKING GOOD GROWTH NOW. UPPER RANGES STILL IN FAIR TO GOOD CONDITION. LOWER RANGES DRY. LIVESTOCK IN GOOD CONDITION.

PARK: DRY AND HOT DURING THE PAST WEEK, WITH LIGHT SHOWERS RECEIVED IN SCATTERED AREAS. SEVERE BURNING OF CROPS AND HOPPER DAMAGE HAS REDUCED THE CROP OUTLOOK IN PARK COUNTY VERY MATERIALLY THE PAST WEEK. LIVESTOCK ARE IN FAIR CONDITION. HOWEVER, RANGE IS BEING BURNED UP AND EATEN OFF BY HOPPERS IN SOME LOCALITIES. GOOD PASTURE IS BECOMING EXCEEDINGLY SCARCE. HAY HAS BEEN SHIPPED OUT OF THE COUNTY IN ALARMING QUANTITIES, WHICH PRESENTS A PROBLEM THAT PARK COUNTY MAY BE SHORT OF FEED IF A NORMAL WINTER FOLLOWS.

PHILLIPS: CONTINUED HOT DRY WEATHER; NO PRECIPITATION. HARVESTING OF BARLEY AND WHEAT IN PROGRESS IN IRRIGATED SECTION. YIELDS LIGHT DUE TO EXTREME HEAT. INSECT DAMAGE STILL MODERATE IN VALLEY. SOME BLUEJOINT BEING CUT, WITH LOW TONNAGE REPORTED. NO DRY LAND CROPS. LIVESTOCK LOSING CONDITION. INDICATIONS ARE THAT HEAVY SHIPMENTS WILL TAKE PLACE IN THE NEXT TWO WEEKS. SMALL OPERATORS HOLDING BACK.

PRAIRIE: WEATHER VERY HOT. SLIGHT PRECIPITATION DURING FRIDAY NIGHT IN SOME PARTS OF THE COUNTY. THERE IS NO CROP IN PRAIRIE COUNTY DUE TO DROUTH, HEAT, AND INSECT PESTS. LIVESTOCK IS IN FAIR SHAPE, CONSIDERING THE HEAT, PESTS, AND SHORTAGE OF WATER. STOCKMEN FACE A SERIOUS SITUATION, WITH NO FEED TO GO INTO THE WINTER. FARMERS LOOKING FOR WORK.

RICHLAND: NO PRECIPITATION FELL DURING THE WEEK. WEATHER SLIGHTLY COOLER DURING THE FIRST PART OF THE WEEK AND FAIR GROWING CONDITIONS. HARVESTING OF GRAIN IN FULL SWING, BOTH IN DRY LAND AND IRRIGATED PARTS, BUT YIELDS ARE RUNNING VERY LOW. REPORTS FROM THE DIFFERENT PARTS OF THE DRY LAND AREA RECEIVING YIELDS OF AROUND ONE TO TWO BUSHELS OF WHEAT WITH A LARGE ACREAGE THAT WILL NEVER BE HARVESTED. THE FALSE CHINCH BUGS HAVE APPEARED IN LARGE NUMBERS IN SOME PARTS OF THE COUNTY AND SEEM TO BE DOING QUITE A LITTLE DAMAGE TO CROPS SUCH AS POTATOES AND GARDEN CROPS AND ARE ALSO ATTACKING CORN FIELDS. THE LIGHT SHOWERS THAT FELL THE PREVIOUS WEEK STARTED TO GREEN UP GRASS, BUT WITH CONTINUED WARM WEATHER AND DESTRUCTION BY GRASSHOPPERS, VERY LITTLE FEED WAS PRODUCED. FARMERS AND STOCKMEN ARE MOVING SOME LIVESTOCK TO MARKET, ALTHOUGH A GOOD MANY OF THEM HAVE TURNED THEIR STOCK INTO GRAIN FIELDS TO SALVAGE WHAT FEED THERE MIGHT BE AND ARE HOLDING THEIR STOCK FOR HIGHER PRICES LATER ON.

ROOSEVELT: DRY, HOT DAYS THROUHOUT PAST WEEK. SOME HARVESTING ATTEMPTED ON NEARLY EVERY FARM, WITH RETURNS FROM 1 TO 5 BUSHELS. LIVESTOCK MARKETING MOVEMENT VERY SLOW. FEED SITUATION BETTER THAN A MONTH AGO IN EASTERN SECTION OF THE COUNTY, BUT BAD IN THE WEST END.

ROSEBUD: IRRIGATED CROPS MAKING FAIR GROWTH. FALSE CHINCH BUGS STILL DOING CONSIDERABLE DAMAGE TO POTATOES. CORN NOT AS SERIOUSLY DAMAGED AS AT FIRST EXPECTED. ORDERLY MOVEMENT OF SHEEP AND CATTLE TO FEED AND MARKET UNDER WAY.

SANDERS: NO PRECIPITATION. TEMPERATURES CONTINUE HIGH. WINTER WHEAT HARVEST GENERALLY COMPLETED, WITH YIELDS FROM 15 TO 25 BUSHELS OF GOOD QUALITY. SPRING GRAINS PREMATURELY RIPENED FROM EXCESS HEAT AND LACK OF MOISTURE. LOW AVERAGE YIELD. SECOND CUTTING OF HAY BEING STACKED, WITH FAIR YIELDS UNDER IRRIGATION AND POOR ON DRY LANDS. SEED PEAS BEING HARVESTED WITH REDUCED YIELDS FROM EXCESSIVE HEAT AND LOW MOISTURE. LOW YIELD ALFALFA AND CLOVER SEED FROM UNFAVORABLE WEATHER CONDITIONS. VERY GOOD CONDITION OF CATTLE, WITH GOOD FEED SUPPLY ON HIGHER RANGES. SOME GRASSHOPPERS MOVING IN ON CROPS FROM RANGE AREAS, BUT TOO LATE TO CAUSE MUCH DAMAGE.

SHERIDAN: HIGH TEMPERATURES. HOT WINDS RAPIDLY MATURING LATE GRAINS. HARVESTING IN FULL SWING; YIELDS FROM TWO UP TO NINE BUSHELS OF WHEAT REPORTED. AVERAGE OF THAT HARVESTED YIELDING THREE TO FIVE BUSHELS. VERY LITTLE, IF ANY, OATS OR BARLEY TALL ENOUGH TO BIND, BUT WITH THISTLES IS BEING CUT FOR HAY. CORN THAT WAS KEPT FREE FROM WEEDS MAKING RAPID GROWTH, PROMISING BEST FODDER IN YEARS, AND BARRING EARLY FROST SHOULD PRODUCE MATURED EARS. GROWTH OF THISTLES INTERFERING WITH HARVESTING OF WHEAT WITH COMBINES. AMPLE FEED FOR LIVESTOCK; HENCE, BUT NORMAL MARKETING OF LIVESTOCK TO DATE.

STILLWATER: SLIGHTLY LOWER TEMPERATURES DURING THE WEEK. ONE SMALL SHOWER THE FIRST OF THE WEEK. IRRIGATED CROPS HAVE CONTINUED TO RIPEN AND GRAIN AROUND PARK CITY BEING HARVESTED. SECOND CUTTING OF ALFALFA MAKING FAIR GROWTH IN IRRIGATED SECTIONS. SUGAR BEETS MAKING GOOD GROWTH AND A FAIR YIELD IS EXPECTED IN MOST FIELDS. DECREASE IN GRASSHOPPER NUMBERS CONTINUING; SOME HOPPERS STILL HATCHING. POISONING OPERATIONS ARE ON THE DECREASE. LIVESTOCK IN FAIR CONDITION BUT FEED VERY SHORT. STEADY MOVEMENT OF CATTLE TO MARKET. SOME SHEEP BEING MOVED OUT OF THE COUNTY TO PASTURE.

SWEET GRASS: PRECIPITATION WAS JUST A TRACE. GROWING CONDITIONS GOOD ON SECOND CUTTING OF ALFALFA, WHERE THE INSECT INFESTATION IS UNDER CONTROL. THERE HAS BEEN NO CHANGE IN THE GENERAL CROP CONDITIONS. VERY SMALL PERCENTAGE OF GRAIN THAT WAS SEEDED FOR HARVEST IS NOW IN SHOCK. ALL CROPS BADLY DAMAGED BY INSECTS. LIVESTOCK IN THE FOREST RESERVES ARE DOING WELL. ALL STOCK THAT ORDINARILY GRAZES ON THE LOWER HILLS ARE NOW IN THE GRAIN AND HAY MEADOWS WHERE THERE IS NO IRRIGATION, CLEANING UP THE REMAINING PART OF THE CROP; JUST ABOUT HOLDING THEIR OWN. INSECT INFESTATION IS LESSENING SOMEWHAT NOW AND THE CONTROL PROGRAM IS STILL BEING CARRIED ON.

TETON: ANOTHER WEEK OF RATHER WARM WEATHER AND HOT WINDS HAS HASTENED THE RIPENING OF ALL CROPS IN THE COUNTY. TEMPERATURES HAVE BEEN RANGING FROM 90 TO 95 FOR THE WEEK. NO PRECIPITATION. PRACTICALLY ALL OF THE COUNTY WITH EXCEPTION OF IRRIGATED AND PORTER BENCH AREAS ARE IN THE MIDST OF HARVESTING CROPS THAT HAVE PREMATURELY RIPENED DUE TO THE EXTREME DROUTH AND HOT WINDS. A LOT OF THE ACREAGE IN THE SOUTHEASTERN PART OF THE COUNTY IN BECK AND POWER AREAS WILL NOT BE HARVESTED. SO FAR, YIELDS HAVE BEEN RUNNING ALL THE WAY FROM 15 TO 12 BUSHELS AND WEIGHTS 55 TO 58 POUNDS WITH HIGH PROTEIN CONTENT. THE HIGHER YIELDS ARE IN THE BETTER SECTIONS WHERE SCATTERED SHOWERS HAVE HELPED MATERIALLY. FURTHER HARVESTING OF PEA CROP INDICATED RATHER LOW YIELDS. INASMUCH AS THERE HAS BEEN NO PRECIPITATION, THE RANGE HAS BEEN GETTING STEADILY WORSE, IF SUCH IS POSSIBLE. LIVESTOCK HAVE BEEN LOSING FLESH PAST TWO WEEKS. CONSIDERABLE AMOUNT HAVE GONE TO MARKET, BUT MOST OF OUR STOCK IS IN FAIR CONDITION BUT WILL HAVE TO BE MOVED TO MARKET BEFORE LONG.

TOOLE: HOT AND DRY. HARVESTING GOING FULL BLAST THROUHOUT MOST OF COUNTY. CROPS RUNNING VERY LIGHT IN WEIGHT AND LIGHT IN YIELD. YIELDS HAVE BEEN REPORTED FROM ONE TO TWO BUSHELS UP TO NINE, THIS BEING THE HIGHEST, AND COMES FROM THE SWEETGRASS HILLS AREA. TEST WEIGHTS OF WHEAT RANGE BETWEEN 53 AND 55 POUNDS. HARVESTING THREE WEEKS TO MONTH EARLIER THAN NORMAL. ALMOST ALL FARMERS HAVE SOME DEVICE TO SAVE AS MUCH STRAW AS POSSIBLE AND ARE CUTTING AS MUCH FOR STRAW AS FOR THE YIELD. MUSTARD CROPS IN NORTHERN PART OF COUNTY RUNNING ABOUT 300 POUNDS. WATER HOLES ARE RAPIDLY DRYING UP; SOME MEN HAULING WATER AT PRESENT TIME. SEVERAL SHIPMENTS EXPECTED THIS WEEK AND A FEW LAST WEEK. LABOR PLENTIFUL.

VALLEY: HOT AND NO MOISTURE. CROPS IN THE NORTHEASTERN CORNER OF THE COUNTY, WHERE SOME RAIN WAS RECEIVED ABOUT TWO WEEKS AGO, ARE STILL GREEN, BUT ARE INFESTED WITH HOPPERS. A SMALL AMOUNT OF GRAIN IS BEING RUN THROUGH COMBINES. TEST WEIGHTS RANGE FROM 43 TO 53 POUNDS. A FEW YIELDS AS HIGH AS 6 BUSHEL, BUT MOST OF WHEAT MAKING AROUND $\frac{1}{2}$ BUSHEL. A LARGE ACREAGE OF GRAIN IS BEING CUT FOR FEED. LIVESTOCK MOVEMENT TO MARKET INCREASING. A FEW MORMON CRICKETS HAVE BEEN FOUND IN THE COUNTY THE PAST WEEK.

WHEATLAND: CONTINUED HOT AND DRY. DURING THE PAST WEEK, GRASSHOPPERS IN ALL AREAS IN THE COUNTY ARE APPARENTLY MOVING OUT AS THE INFESTATION HAS DECREASED IN MOST AREAS. LIVESTOCK STARTED TO MOVE OUT OF THE COUNTY DURING THE PAST WEEK DUE TO SHORTAGE OF WATER AND FEED. SEVERAL STOCKMEN HAVE MADE ARRANGEMENTS TO MOVE THEIR STOCK OUT TO PASTURE AND FOR WINTERING. SOME STOCK WAS PUT ON THE MARKET.

WIBAUX: WEATHER COOLER PART OF THE WEEK, BUT SOME EXTREMELY HOT DAYS. NO PRECIPITATION. A FEW COMBINING WITH YIELD OF 1 TO 2 BUSHELS OF GOOD QUALITY OF SEED. LIVESTOCK MOVING GRADUALLY. HAY PRICES TOO HIGH FOR RANCHERS TO BUY, THEREFORE SMALL AMOUNT OF HAY WILL BE BOUGHT. ALL POSSIBLE ROUGHAGE BEING GATHERED TO USE WITH CONCENTRATES. LIVESTOCK STILL KEEPING IN FAIRLY GOOD CONDITION.

YELLOWSTONE: MOSTLY CLOUDY. COOLER FIRST PART OF WEEK; HOT LATTER PART OF WEEK. NO RAIN. IN IRRIGATED DISTRICTS, FARMERS HAVE FINISHED CUTTING SECOND CROP OF ALFALFA - AVERAGE YIELDS LIGHTER THAN USUAL, ALTHOUGH IN SOME CASES GOOD YIELDS ARE REPORTED. THRESHING OF GRAIN STARTED. EARLY REPORTS INDICATE YIELDS SLIGHTLY BETTER THAN EXPECTED. BEETS AND BEANS IN GOOD CONDITION. PASTURES GENERALLY IN POOR CONDITION, ALTHOUGH SOMEWHAT BETTER THAN LAST WEEK DUE TO REDUCTION IN NUMBER OF HOPPERS. MIXING OF GRASSHOPPER BAIT FOR THIS SEASON HAS BEEN COMPLETED ALTHOUGH PLANT WILL BE KEPT OPEN TO DISTRIBUTE BAIT UNTIL AUGUST 8TH. LAST TWO WEEKS HAVE SEEN A VERY HEAVY REDUCTION IN NUMBER OF HOPPERS, ALTHOUGH IN SCATTERED LOCALITIES HOPPERS ARE STILL REPORTED TO BE QUITE NUMEROUS. NOT MUCH CHANGE IN LIVESTOCK SITUATION. CONSIDERABLE STOCK STILL GOING TO MARKET.

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HELENA, MONTANA,
AUGUST 5, 1936.

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau --- Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 11, 1936.

*Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.*

Light scattered showers during the week ending August 11 were reported from points in northeastern and central Montana; elsewhere the week was dry and comparatively warm, with maximum temperatures ranging from 90° in the extreme western to above the hundred mark in eastern Montana.

Harvesting of winter and spring wheat continued, with the former nearing completion and the latter being generally under way except in irrigated areas. Winter wheat yields except in favored portions including most of western Montana and the irrigated sections of the Gallatin and parts of the Yellowstone Valley have fallen much below earlier expectations. In the important Highwood area of Chouteau County and adjacent western portions of Fergus, crops that a few weeks ago looked like 15 bushels have threshed out from 7 to 11 bushels. Part of this loss of prospect was due to extreme heat during the filling stages and part of it resulted from grasshopper damage after the crop was ripe. In case of spring wheat, the prospect is extremely poor throughout the major spring wheat counties, where yields as low as 3 bushels are reported on early harvest returns, with the bulk of reports below 7 bushels. Material abandonment equal to that of other drouth years such as 1919, 1931, and 1934 has become apparent since July 1. In case of oats and barley, outside of the irrigated acreages of these crops, the yield prospect is for the poorest yields since 1931. Hay yields are extremely poor, but all possible acreage, including thistles, is being harvested. In the irrigated valleys, the first cuttings of alfalfa yielded a fair tonnage. In many cases, second cuttings have not been made yet due to the heat. Recent rains and cooler weather may yet make more irrigated alfalfa, except possibly in southeastern Montana, where rainfall has continued markedly deficient. Dry land alfalfa over most of the eastern half of the State has been pastured. Grain hays are showing a very light yield, and would not have been worth cutting except for the scarcity of winter feeds. Wild hay yields were fair in the important Big Hole Basin in southwestern Montana, where about a third of the 1936 State acreage is located; in the eastern half of the State, prairie hay crops have been largely pastured.

Potatoes have suffered a decrease in prospect as a result of July heat. Some irrigated sections of the State still have prospects for a fair crop. The non-irrigated crop in many cases in eastern Montana dried out. This acreage, however, is mostly in fractional acre farm gardens. Bean prospects have declined. There will be little dry land acreage harvested.

Fruit prospects continue quite poor in western Montana. In case of apples, growers, becoming discouraged with the poor returns of the past three years, have neglected their orchards, which are now showing the lack of spraying and pruning as well as proper irrigation. Only about a third of a commercial crop is now expected in case of apples.

The effect of the rains during the week ending August 4 have now become apparent in freshening up the parched pastures and ranges in north-central and extreme northeastern Montana, and have helped the growth of thistles, which in some localities will be cut for forage. Shipments of cattle and sheep have continued from the drouth counties, with the fall marketings from other sections promising to be earlier than usual.

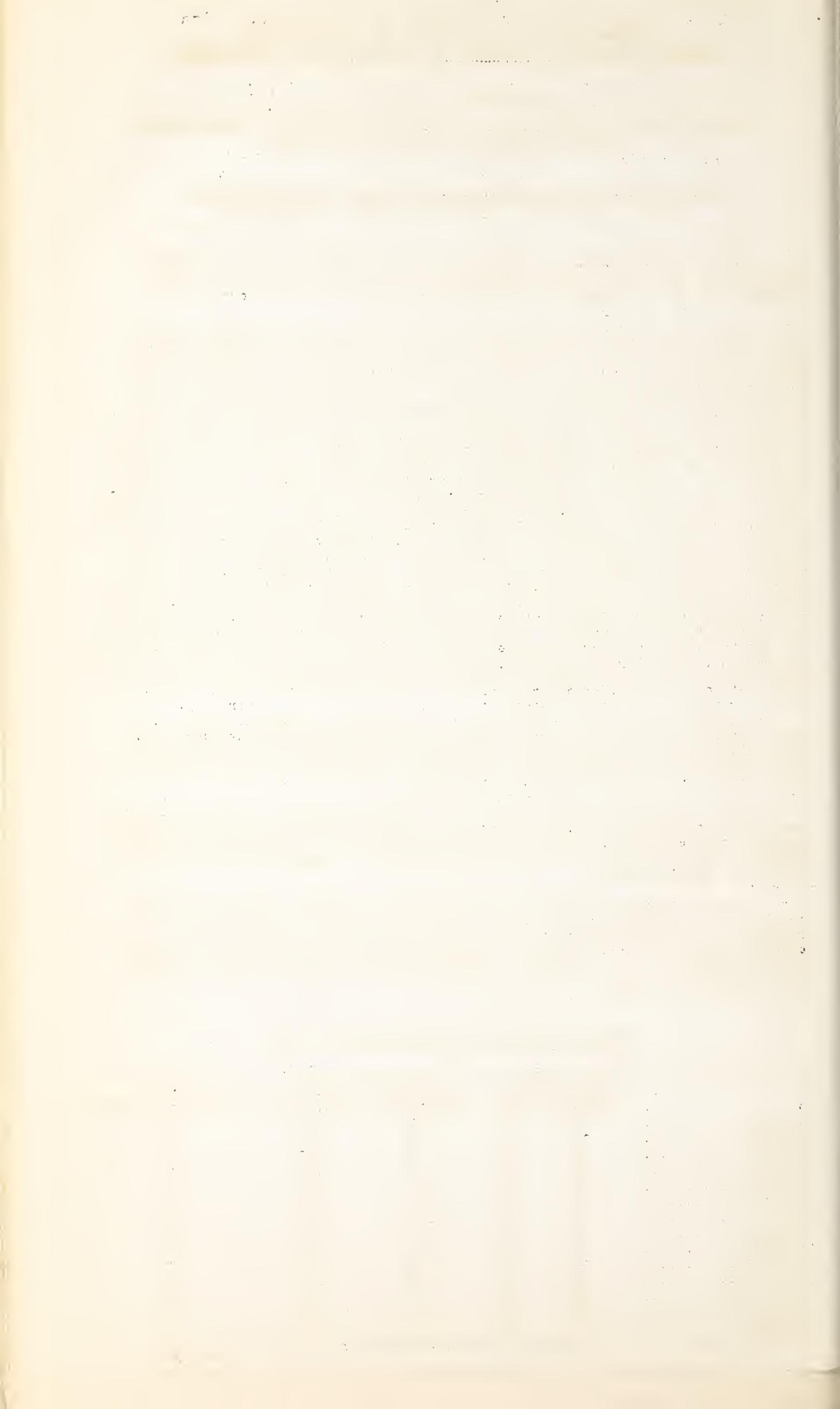
Weekly Temperature and Precipitation Data.

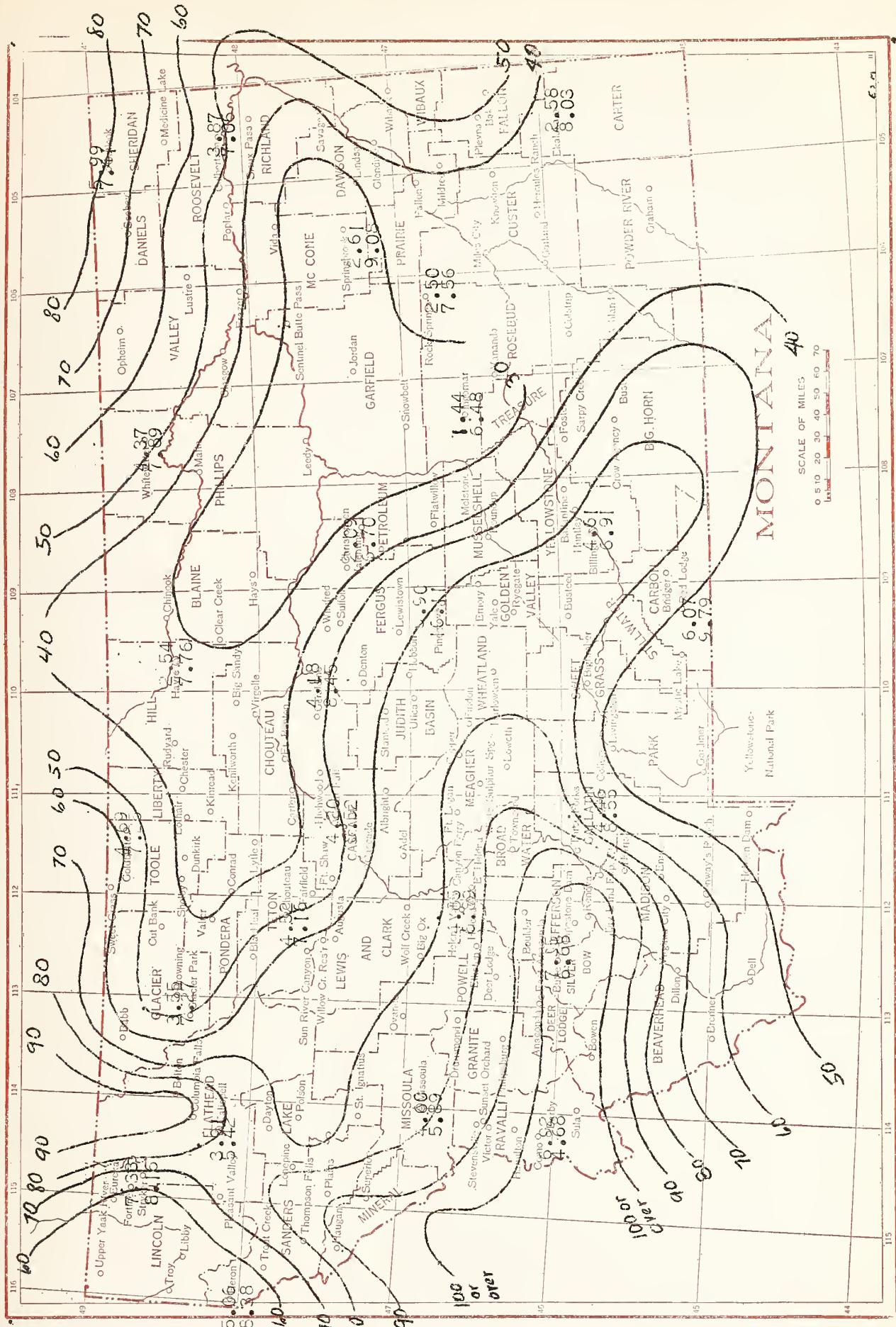
	Temperature		Total Precipitation		Sunshine
	Highest	Lowest	This Week.	Since Apr. 1	Percent of Possible.
Billings	99	48	0.03	4.64	*
Bozeman	90	48	0.36	4.52	*
Cut Bank	94	47	0.01	4.94	*
Glasgow	101	41	T	3.90	*
Glendive	104	48	0.01	4.87	*
Great Falls	102	48	0.04	4.44	*
Havre	98	50	0.02	3.40	86
HELENA	91	51	0.09	5.02	78
Kalispell	90	46	0.00	4.19	90
Lewistown	96	43	0.07	6.13	*
Malta	99	46	0.02	3.19	*
Miles City	102	48	0.01	2.55	70
Missoula	94	54	T	4.66	86
Poplar	102	46	T	3.73	*

*No data.

W. E. Maughan, Weather Bureau.

Jay G. Diamond, Division of Crop and Livestock
Estimates.





This map shows the percentage of normal precipitation that has occurred in Montana during the first four months, April through July, of the 1936 crop growing season.

The upper of each typed pair of figures indicates the actual amount of precipitation that has occurred in that respective area during the period April to July, inclusive; the lower figure indicates the normal amount of precipitation for the same area and period.



The Following County Summaries of Crop Conditions for Week Ending August 8, 1936,
are furnished through the courtesy of Director J. C. Taylor, Montana State
Extension Service.

BEAVERHEAD: One good rain; few thunder showers - scattered; drying winds, temperatures high; nights cooler. Ranges reported burning; crops in good shape; good second crop of alfalfa expected; second cutting under way. Estimates 50% of lambs have been contracted.

BIG HORN: Cool and cloudy with one shower fore part of week. Hot and dry latter part of week and serious water shortage in the Lodge Grass and Little Horn irrigated projects. Crops in irrigated valleys beginning to show signs of maturity. Second crop of alfalfa reported to be about one-half normal. Practically no harvesting will be done on dry lands of southeastern part of county. Livestock still in fair condition. Large numbers of cattle being moved, mostly to eastern markets. Some livestock being turned in on winter wheat stubble as pastures are practically gone. Decrease in insect and grasshopper numbers apparent.

BLAINE: .93 inch of rain fell over an 18-hour period on Monday. Cool; partly cloudy during the week. Crop conditions on irrigated land have showed a great deal of improvement during the past week. Sugar beets making rapid growth. Grain harvest in the valley well under way. Range has shown no improvement since the recent rain as it will take more moisture to cause any material growth of grass. Livestock being moved to market in large volume. Some cattle and sheep being shipped to grass.

CARBON: Light showers reported during the week-end in certain portions of the county. Most all grain fields are harvested and threshing is in progress, but on account of the hopper situation low yields are being reported, even under irrigation. The second cutting of alfalfa is being harvested at the present time, but although it is below normal it is better than anticipated. Grasshopper poisoning work in county almost completed. Stock still being moved to market and some estimates are reported that 50% to 75% of breeding herds will be disposed of on account of lack of feed.

CASCADE: Light precipitation the forepart of the week improved crops and range conditions slightly. Cool weather has also given slight relief to livestock and all crops. Feed shortage and insect damage continue. Conditions of crops on irrigated land continue to look favorable and feed conditions in irrigated sections will help stabilize the livestock situation in the county to a small extent. Stockmen cannot afford to pay for feed and will have to continue to liquidate their holdings. Livestock are moving to market as rapidly as farmers can get them there. Some sheep are being moved to outside areas for feed.

CUSTER, POWDER RIVER: Cooler, with light showers. Beets and second crop of alfalfa making good growth since insect damage is lessening. Range and feed conditions remain the same. Most of the cows and calves have been sold and delivered. Some yearlings are being held for fall shirping. Not much movement on sheep as operators are trying to make feeder lambs. Several contracts signed for 45-lb. lambs. Sheep so far have fared better than cattle.

DANIELS: Not enough rain to improve pasture conditions. Harvesting moving along rapidly. All grain short and difficult to handle. Livestock generally in good condition. Movement to market slow as yet. Several buyers in the county.

DAWSON: Cool forepart of week, with cloudy weather, but no precipitation. Warmer at close. The scattered harvesting which has been in progress the past couple of weeks is being completed, with numerous farms reporting seed saved; other localities failing to obtain sufficient feed for stock. Movement of livestock to market is gaining some little momentum and a number of growers losing hopes of securing much additional feed.

FERGUS: Light precipitation. The harvesting of spring and winter wheat is being rapidly completed. A good many acres are not being harvested at all. The quality of wheat generally is poor. Heavy livestock shipments from this section. Some sections in the east part of the county have practically all of their cattle shipped out, except a few head of dairy cattle which they expect to carry over the winter. Some small amounts of feed being shipped in but as a general rule stock are being shipped because it will be impossible to feed hay due to high market prices. The grasshoppers are doing very little damage at this time.

FLATHEAD: Slight showers throughout the week. Pea crop apparently is between 60 and 70% of last year. Winter wheat harvest well under way. Some spring wheat being harvested. Potato crop fair, although a good rain would make us a big potato crop. Second cutting of alfalfa is rather poor, especially on dry land. Livestock O.K. Pastures dry.

GALLATIN: Warm and still most of week. Grain harvest continues with moisture conditions in different parts of the county varied. Stacking second cutting alfalfa under way. Heavy shipments of hay both by truck and rail from this county to the eastern part of the State. This has increased somewhat since the establishment of drouth rates. Extremely hot weather is having some effect on seed peas.

GARFIELD - PETROLEUM: Cool and dry conditions prevailed during the last week, with a very small amount of precipitation. The same crop conditions as reported previously. No crop harvest in the county. Livestock moving from the counties rather moderately somewhat early in the season. Livestock conditions fair.

GLACIER: Good precipitation. Threshing is practically completed in the southeastern section of the county, but it is just starting along northern section. Rain was great benefit to range, which is greening up some. Late feed crops will be helped. Stock reservoirs were partially filled, and springs began running. All livestock is fair to excellent in condition. Recent moisture will delay any forced marketing well into normal season. The main concern of livestock men is winter feed.

JUDITH BASIN: Light precipitation. Somewhat cooler. Combining and harvesting going on in full force. Spring grain badly mixed with fall wheat. All grain very light in test weight. Livestock still in fair shape. Gradual liquidation taking place as feed becomes shorter and prospects for winter is getting poorer. Grasshopper menace apparently somewhat less acute.

LAKE: Good showers. Peas are about all harvested. Beets doing fairly well. Grain mostly in the shock or being combined. Second cutting alfalfa well started. No particular shortage of water for beets. Pastures only normal for this time of year. Few carloads lambs going to market this week in good condition.

MADISON - JEFFERSON: Local showers improved growing conditions. Shortage of irrigation water in some localities. Threshing of peas and grain started in one or two of the irrigated communities during the week. Some dryland grains have been threshed on a few farms, and combining is just getting well started in most of the dry land areas. Some farmers are cutting and stacking their second crop of alfalfa in areas where there has been little damage from grasshoppers. Drouth stock are still coming into Madison and Jefferson counties in moderate numbers. Local stock are generally in good condition and have sufficient feed with the exception of a few dry hopped-off areas.

MISSOULA: Light showers. Haying and harvest progressing rapidly. Some threshing started. Potatoes and sugar beets making good growth. Irrigation water from Missoula River still adequate; from mountain streams, low. Livestock in good condition. Some range or pasture available for outside stock. Local stockmen buying cattle from the drouth area.

MUSSELSHELL - GOLDEN VALLEY: No precipitation; weather much cooler. No improvement in crop conditions. No improvement in livestock conditions. Extensive movement of stock either to better range or to market, majority to market.

PARK: Very little rain received. Drouth and hopper conditions still damaging crops. Harvesting of grain has started in some areas of the county. Livestock are in fair condition. However, range is being burned up and eaten off by hoppers in some localities. Very little good pasture is available. Small amounts of hay are being shipped out of the county.

PHILLIPS: Light general rains. Rain will help revive corn, a few late crops, and thistles. Will help relieve feed situation, but little effect on range. Irrigated crops improving. Second cutting alfalfa reported better than first. About half of sugar beets late and may be in danger of frost injury. Heavy shipments of livestock now being made. Conditions of range cattle generally fair to good. Barnyard cattle losing condition. Water shortage becoming acute all over county.

MONDORNA: Light rain may assist some wheat to fill a little more, and will also aid in harvesting where combines are working. Harvesting operations started the beginning of this week, using both binders and combines and using buncher attachments for saving straw. Barley and oat feed is at least 85% below normal and there will be a shortage of feed grains. Grasshoppers in the adult stage in flight are contributing to further damage and loss of grain. Poisoning operations ceased this week. Rains will improve range and grass conditions and at least preserve roots for next year, but have no feed value to speak of. Cattle will have to be liquidated by reason of lack of feed and water in the water holes. Forced liquidation of sheep to the extent of 25% over and above normal marketings is now almost assured. Easy flow of livestock to market.

PRAIRIE: Weather cooler. Trace of precipitation. There is no crop in Prairie County. Crops too far gone to salvage any for grain hay. Range conditions unchanged; no grass and very little water, necessitating the movement of quite a percentage of livestock to market.

RICHLAND: No precipitation during the week, but with cooler weather prevailing. Harvesting of small grains in full swing in the irrigated valley, with some harvesting being done in some parts of the dry land. Most of the second cutting of alfalfa hay has been put up in the irrigated valley. The corn crop offers as a whole one of the best possible means of obtaining feed in the dryland area of the county, and if additional moisture is received, will still make considerable feed. Grasshoppers in large numbers, but the damage being done by other insects has decreased. Growers short of feed are continuing to move cattle into market, but no sheep have been moved to date.

ROOSEVELT: Light showers. Wheat harvest about one-half done. Numerous carloads of cattle being shipped out, and feed will soon have to be shipped in.

ROSEBUD: No precipitation. Slight improvement of irrigated crop conditions during the week, largely due to lessening of grasshopper damage. Fair crop of second cutting alfalfa harvested during week. Sugar beets making good growth. Moisture received during July not sufficient to start growth of Russian Thistles, the stockmen's last hope for a supply of winter roughage. Cattle and sheep were shipped and sold in larger volume during week.

SANDERS: Light precipitation. Continued clear and dry, with warm days and cool nights. Winter wheat harvest completed. All late crops damaged by low moisture. Potatoes and other truck and garden crops fair.

SHERIDAN: Light rain. Thistles making rapid growth. Some wheat being cut for feed. Thistle growth is making it possible to gather some wheat which would otherwise be lost. Some farmers are having difficulty in removing thistles from wheat and thus there is danger from heating. This is being taken care of by laying in small piles or by fanning. There will be ample feed in the county, but individual farmers may be short of feed. Corn making good growth. Insect damage has decreased.

SWEETGRASS: No precipitation. Growing conditions good for second cutting alfalfa on irrigated lands. Crops poor on account of heat and water shortage. At present it appears to be 50% of normal grain crop for harvest and a little threshing for poultry feed. Livestock on Forest Reserves are reported in good shape. All livestock on lower ranges and ranches have been marketed or shipped out for feed. Insect infestation is lessening in the valley.

TETON: Light precipitation. All of county in midst of harvesting. Some communities are finishing up with their harvesting work. Wild hay all up, with the second cutting of alfalfa soon to start. Livestock still going to market.

TOOLE: A general rain. Majority of crops harvested at this time. Wheat very light and abandonment of many fields took place. These are being pastured off. Mustard crops have turned out better than expected. Recent rains will help grazing materially in northern portion of county. Rains did not help much toward filling water holes as they were of a slow, drizzling nature. A few cars shipped out this week. Some cattle losing weight.

VALLEY: General precipitation. Farmers are endeavoring to salvage some of the grain for a small amount of seed. Most of the farmers, however, are attempting to salvage abandoned fields for feed purposes. Some areas in county may have had enough precipitation to stimulate growth of thistles which will aid feed tonnage. Where water is available, fair second crop of hay will be harvested. Livestock generally going down in weight. During the past ten days, stockmen have been looking for pasture and feed. Most of the sheep men may be able to find enough range for lambs until October delivery. Livestock men in most instances will sell rather closely rather than attempt to feed hay.

WHEATLAND: Light showers in northern part of county. Grasshopper infestation has decreased considerably the past week. Stockmen making arrangements to move stock out of county for wintering. Shortage of feed and water. Some livestock shipments have already been made.

WIBAUX: Light shower earlier part of week, with cool weather. Some crop is being harvested, but yields low. Poor growing weather for corn because of lack of moisture; however, some corn fields may produce some feed. Cattle continuing to move out of the county, with several cars going to market.

YELLOWSTONE: No precipitation. In irrigated communities, farmers busy past week, irrigating beets, beans, and alfalfa. Bean crop in fair condition. Not much activity in non-irrigated districts. Not much change in livestock condition. Some stock still going to market. No improvement in range or feed situation.

FALLON - CARTER: Slight precipitation. Somewhat cooler weather. All crops abandoned with the exception of a few fields of corn. Livestock moving out of both counties rapidly.

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Helena, Montana,
August 12, 1936.

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau—Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 18, 1936.

*Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Office: Fourth Floor, Federal Office Building, Helena, Montana.*

During the first few days of the week ending August 18, moderate to heavy showers occurred throughout the counties lying just east of the Continental Divide and in a few central and south-central counties, but the great bulk of the State received amounts too light to be of any benefit. The cooler temperatures which ushered in the week gave way to hot dry weather, which carried day maxima temperatures into the upper ninties and above the hundred mark in the plains area of the State.

Harvesting of what grain crops escaped the drouth made rapid progress, but results have been generally very poor, with such important wheat counties as Chouteau, Hill, Fergus, Daniels, Sheridan, Roosevelt, and Valley reporting very little production above seed needs for next year.

Irrigated crops are now considered better than a few weeks ago, with grasshopper and cricket damage subsiding and local showers in some places helping out where water supplies were low. Sugar beets are making good progress in the Milk River and Yellowstone Valleys. Yellowstone reports good irrigated bean prospects. The pea harvest is completed in Flathead County and is under way in the Gallatin Valley. The potato crop is reported fair in the important Flathead Valley.

Very poor winter feed prospects are reported from such counties as Chouteau, Fergus, Phillips, Cascade, Hill, Judith Basin and Wheatland, from which considerable livestock are now beginning to move. It is now expected that not more than a fraction of the stock in Fergus and Cascade Counties will remain for winter and heavy slashes in numbers are now reported likely in a number of counties westward of the main drouth area. In north-central and eastern counties, considerable thistle is being put up for winter feed. Livestock have continued to move out of the southeastern drouth counties, where the hay crop is expected in some cases to be small for the few that will remain to winter. The area where feed and range prospects remain adequate is rapidly being narrowed to the counties west of the mountains and southwestern Montana and the irrigated valleys.

Weekly Temperature and Precipitation Data

Station:	Temperature		Total Precipitation		Sunshine Percent of Possible
	Highest	Lowest	This week.	Since Apr. 1	
Billings	92	58	0.30	4.94	*
Bozeman	88	49	1.31	5.83	*
Cut Bank	82	47	1.38	6.32	*
Glasgow	96	55	0.10	4.00	*
Glendive	103	60	0.04	4.84	*
Great Falls	92	54	0.03	4.47	*
Havre	94	56	0.14	3.54	80
HELENA	86	53	0.52	5.54	71
Kalispell	88	46	0.13	4.32	82
Lewistown	91	51	0.75	6.88	*
Malta	94	39	T	3.19	*
Miles City	98	62	0.18	2.73	60
Missoula	96	58	0.11	4.77	76
Poplar	97	54	0.15	3.88	*

*No data.

The Following County Summaries of Crop Conditions for Week Ending August 15, 1936, are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service.

BIG HORN: Few scattered showers throughout the county. Will not help drouth situation. Most of the spring grain on irrigated ground either has been or is being harvested. A low percentage of irrigated seeded acreage harvested. About 50% normal yield on harvested acreage. Livestock still moving out of county in large numbers.

BLAINE: No precipitation. Growing conditions in the irrigated valley have been favorable. Russian thistle has made some growth on dry land and is now being put up for stock feed. Harvesting of small grains on irrigated land about completed. Sugar beet crop making rapid growth. Range now showing a slight tinge of green since last week's rain. Will need more moisture to make any improvement. Livestock continues to go to market in large numbers.

CASCADE: No precipitation. Cooler weather the past week has mitigated to some extent drouth and insect damage. Crops on irrigated land are being harvested with fair yields reported. Harvesting of dryland wheat is about 75% completed. Some ranchers planning to buy feed for foundation stock. Conditions for seeding fall wheat very unfavorable, with no reserve moisture in the soil and not sufficient surface moisture to sprout wheat. Livestock continuing to move to market and feed. Some feed being shipped into the county. Prices of livestock are fairly satisfactory and liquidation is heavy.

CARBON: Light showers. Iamaging hail reported in the Fromberg, Bridger, and Silesia areas. Considerable damage was done to the bean crop. Harvesting of the second cutting of alfalfa in full swing. Threshing of grain in progress, with fair to poor yields on account of the hopper damage and hot weather. Stock still being moved to market and no improvement in range, even though there has been some rain.

CHOUTEAU: Continued dry and unusually hot. All harvest completed. Soil moisture very deficient for fall planting of winter wheat, and farmers in general will not seed unless heavy fall rains occur. Unusually heavy shipment of livestock and not more than ten per cent total livestock population will be retained in the county. Farmers have been busy during the week, salvaging straw, Russian thistles and other roughage.

CUSTER & POWDER RIVER: Moderately warm; light showers. Second crop of alfalfa under irrigation growing good, but will be light. Hay crop as a whole will be far below local needs even with the heavy liquidation of stock. Beets continue to make good growth. Late garden crops improving since insect damage is decreasing. Practically all cattle gone or sold for immediate delivery, except in scattered areas. Most sheep outfits feel they can make feeder lambs, but disposal of ewes may be a problem.

DANIELS: Trace of precipitation. Harvesting nearly completed. About half of seeded acreage being cut for grain and hay. Just about enough grain being threshed for next spring's seeding. Some movement of cattle to market. Stock in fair condition.

DAWSON: No moisture of any account. Crop operations practically completed. Scattered fields of corn remaining, which will produce feed. Some haying going on with possibility of thistles furnishing some feed on scattered fields. Stock moving out in some numbers, and operators shipping in small amounts of feed.

FALLON - CARTER: Light showers reported in various parts of the county. Crops, feed, and range conditions remain the same. Practically 60 to 70 per cent of all stock moved out of both counties.

FERGUS: Good precipitation. Practically all wheat which is worth harvesting has been harvested. Rains during this week have not been sufficient so far to make any material difference in the crop prospects. The moth of the pale western cut worm are very numerous in practically all sections of the county and are causing a great deal of concern about seeding winter wheat. Livestock shipments are heavy. Prospects are that not over 25% of the stock will be left here for the winter. Rains this week may freshen up the range and start some growth, which will be quite a benefit to the lambs and calves which are still in the county. Water holes are filled up in some sections, which relieves the water condition which was becoming very acute before the rain.

FLATHEAD: General growing conditions poor. A few very light local showers. Pea harvest practically completed. Threshing in full swing of winter wheat, spring wheat, and barley. Potatoes standing the heat fairly well, although some fields show mal-formation due to heat and drouth. Practically all pastures and hay lands, except those irrigated, are sere and brown. Spring wheat crops show yields of about 55 or 65% of normal. Livestock O.K. Some demand for breeding swine and feeder hogs.

GALLATIN: Local showers. Grain harvest and threshing continue, with nearly all irrigated grain now in the shock. Yields slightly better than previous estimate. Second cutting of hay continues. Seed pea harvest well under way. Summer fallow land being put into preparation for winter wheat seeding.

GARFIELD - PETROLEUM: No precipitation. Some hay and feed being moved into the counties. Local crop condition completely abandoned. Continued moderate livestock movements to market and to feed. 40% of the cattle have already been moved; the removal of sheep just beginning.

GLACIER: Threshing is about half completed along Canadian border; delayed during week by rains. Late feed crops and range helped by heavy rains. Water holes and springs now furnishing good supply of stock water in most sections. Insect damage slowed down. Livestock in fair to excellent condition. Lack of winter feed is causing stockmen to plan to reduce numbers heavily.

HILL: Light precipitation. Harvesting of small grains practically completed.

Some moisture and cooler weather has increased range possibilities slightly and has promoted considerable thistle growth, which is being put up for winter feed. Cattle moving out in large numbers. Rather small movement of sheep to date. All livestock in fair condition, with water shortage being the most serious problem at the present time.

JUDITH BASIN: Good showers. Practically all of the grain is harvested and the rain did very little good except for the range. Most of the crops are now harvested that will be harvested this fall. Range getting short but still has plenty of time to revive should the weather turn and sufficient moisture fall to promote growing conditions. Livestock shipments continuing heavy every week, and most of the summer range is gone; in many cases stock using winter range. Feed condition for livestock is rather serious.

LAKE: Light local showers. Grain about 75% harvested, with combines in the midst of operations. Shock threshing and stacking well started. Yields about normal. Second cutting of alfalfa about completed. Third cutting prospects fairly good. Corn, potatoes, and beets fair to good prospects. Livestock in good shape; pastures poor, with very little for rent at this time.

LEWIS & CLARK - BROADWATER: Fair showers. Second cutting of alfalfa 1/2 to 2/3 of normal in Lewis & Clark County; total hay production much below normal; in many cases a fractional part of normal yield. Grain harvesting well along on dryland areas, with some threshing done. Spring wheat on dry land yielding low. Pasture shortage more evident than lack of hay; livestock operators in northern Lewis & Clark County will generally have to make severe slashes in livestock numbers to make up for lack of fall and winter pasture and less than normal amount of hay. Stock generally being shipped early, with majority going to market.

MADISON - JEFFERSON: Local showers have helped late grains to fill, but are delaying threshing in some areas. The past week has seen more activity in the grain fields, with several additional threshing machines starting to operate. Pea threshing is fairly well advanced, although many of the later varieties are still being cut. Cooler weather has apparently reduced the damage being caused by grasshoppers. In some localities, grasshoppers and hot winds have reduced crop yields, while in other areas grain crops are reported to be the best in several years. Many stockmen from the drouth area still continue to look for surplus feed supplies with the intention of shipping in stock. Most of the larger supplies have already been sold, but some feed still remains to be sold.

MISSOULA: Light shower. Second crop alfalfa and late timothy hay practically all in the stack. All grain crops being harvested. Threshing of wheat started, with yields fair to good. Sugar beet crop good. Livestock in good condition. Some range available for outside stock.

MUSSELSHELL - GOLDEN VALLEY: No precipitation. Unless we have considerable moisture and a reasonable assurance that the grasshopper situation is abated, there will be very little winter wheat seeded this fall. No change in livestock situation.

PARK: Numerous showers and in many cases in cloudburst proportions were received throughout the county. A far below normal second cutting of hay will be harvested this year. Rain has improved the range outlook to some extent. Drouth and grasshoppers have reduced the range and second cutting of hay so that it will be necessary to reduce the normal carry-over of cattle by 25%.

PHILLIPS: Trace of rain. Thistles making some growth as a result of last week's rain. Harvesting of grains in valley practically completed and some threshing done. Dry land farmers salvaging all feed possible. Only in northern part of county will any amount be put up. Livestock condition fair. Movement to market under way from south country. No livestock shipped out to pasture this week. Majority of stockmen plan on marketing bulk of livestock.

MONDERRA: Light general rain, which will be of considerable benefit on summer fallow and lands that had already been harvested. On the whole, grass has started nicely on the range with the help of recent rains, but is not expected to produce much feed except only to root itself more firmly for the purpose of getting a better start next spring. Considerable amount of wheat fields being used for pasture. Feed crops on irrigated land will out-yield last year's production, but less acres were seeded, which were replaced by new seedings of alfalfa and sweet clover. Some liquidation of cattle is now taking place, but going out in a rather measured quantity.

PRARIE: No precipitation. No crop. Cattle continue to be moved out of county; majority going direct to market. Thistles making slow growth.

RICHLAND: No precipitation. Harvesting of grains under way, but practically finished. Yields very low. Corn will make considerable feed, which has improved greatly in the past two or three weeks. Livestock being moved from the county all the time. Irrigation farmers are trying to locate lambs now for feeding this winter, and all available feed is being listed for sale.

ROOSEVELT: No rain. Wheat harvest about complete. Most farmers consider themselves fortunate if they have seed for next year. Livestock movement not heavy as yet, but should increase in next two weeks. Range livestock in fair condition.

ROSEBUD: Few light local showers of no material benefit. Second cutting of alfalfa all in the stack. Third cutting making normal growth. All small grain except late planted emergency feed crops have been harvested. Damage from insect pests practically ceased. Many dry land farmers making preparations to seed winter wheat and rye at the first signs of rain. Orderly movement of livestock still under way. Many stockmen who have resorted to the use of protected winter pastures report carrying capacity far below expectations.

SANDERS: No precipitation. Harvesting both winter and spring grains generally completed. Threshing well under way. Some shriveled grain from high temperatures and low moisture. Seed pea harvest completed. Second cutting of hay mostly in stack, with good yield under irrigation and very poor on dry lands. Alfalfa and clover seed promises low yield. Livestock in very good condition. Higher range holding up well. Lambs starting to Chicago market weighing around 80 pounds.

SHERIDAN: Light shower. Corn making fair growth where weeds have been kept down. Short wheat is being headed and stacked. That too short for cutting may be used to fatten sheep. Livestock making rapid gains on stubble; also on short grain and thistles. Some ranches are shipping in sheep for fattening.

STILLWATER: Scattered local showers. Second cutting of alfalfa being cut with other fields making fair growth. Some wheat being cut by farmers who poisoned grasshoppers. Indications are that wheat will have to be shipped in for fall seeding. Beets making good growth the past two weeks. Livestock in fair condition with stockmen hoping for rain so as to get some fall feed. Still considerable movement of cattle to market. Most of larger bands of sheep went out of county for feed, have been sold or on forest reserve.

SWEETGRASS: Light showers. The earlier second cutting of alfalfa on irrigated land is now being harvested for hay, and it is very light. It is blooming out very short and will not exceed 40% of the normal crop. The later stands are showing more promise and so far able to hold the bloom back with water. Meadows not under irrigation and the lower ranges have had the growing more depleted each day. Livestock is still moving to market. There are a very few cows to pasture. All lambs on lower ranges will be considerably under weight. Grasshoppers are easing up. There are reports that beetles are doing considerable damage to egg pods.

TETON: No precipitation. Scarcely one-half pea crop in irrigated sections. Potatoes on irrigated land looking good. Wheat in the area that we thought would go pretty good after harvesting is rather disappointing. Lots of stock have been moving to market. Many inquiries received at office in regard to locating wintering quarters.

TOOLE: General showers. Most water holes have been filled up. The earliest harvest on record in the county is about completed. Wheat generally averaged 55 pounds to the bushel. Mustard crops held up well under the extreme drouth. Large amounts of hay cut. Recent rains have enabled stockmen to hold on to their stock until regular marketing time. Hay prices are prohibitive, and all producers intend to sell down to their feed pile.

VALLEY: No precipitation. Dry land grains being harvested wherever the yields warrant operation of combine. Wherever enough thistles are present in the grain fields, they are being salvaged for hay purposes. Irrigated fields will have fair yields of grain. Wild hay crop generally lighter than normal. Livestock generally in fair condition. Very little moving to market or outside range at present.

WIBAUX: No moisture. Practically all the wheat is harvested that is worth cutting. Corn crop is suffering and unless we have moisture, corn will not even make feed. With ranges drying up and dried up, cattle are continuing to move out.

WHEATLAND: Light general rains. Good rains reported in south and west part of county. Some livestock sales reported and some livestock shipped out of county for feed. Livestock water is not as short as previous to rains.

YELLOWSTONE: Heavy rain and hail in southwest portion of county. In irrigated valley, threshing practically completed with yields lower than usual due to hoppers and hot weather. Second cutting of hay put up, with farmers busy irrigating third crop. Beets and beans in excellent condition. No change in the livestock condition.

Helena, Montana,
August 19, 1936.

UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau — Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 25, 1936.

*Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.*

Rather general showers and much cooler weather marked the week ending August 25. Temperatures dropped low enough in extreme northwestern Montana to cause light frosts in a few places. Rainfall, which was heavy at spots throughout the northern half of the state and a few central localities, was very light in western Montana and in most of the southern half of the state. Much of the drought area received little, if any benefits, due both to the lateness and light amounts of rainfall. With the seeding season for fall sown grains approaching, farmers in the principal winter grain areas are now hoping for further moisture to put soils in shape for fall seeding.

Harvesting of small grain crops has made rapid progress due both to the light crops and premature ripening. Irrigated grain crops are now being cut in most sections of the state. Yields on irrigated grain crops already harvested are reported very satisfactory, but non-irrigated yields are still ranging from complete failures to very low yields on seeded acreages. The short production of feed grain crops on non-irrigated lands is expected to result in considerable of such feed being shipped into many of the drought counties.

Hay crops vary widely even in irrigated areas where considerable winter killing of alfalfa and spotted yields reduced first cuttings. Second crops of alfalfa vary from very poor in Park county to very good in Lake county. Prospects for third cuttings are now reported good in Lake and Missoula counties and a few scattered areas in the irrigated sections east of the mountains. Considerable roughage in the form of weeds and thistles is being put up in many places for winter feed.

Potatoes in the important Flathead valley are showing second growth in some fields and also spotted frost damage. The harvest of the pea crop is generally nearing completion. Sugar beets have improved in Big Horn county in the east and are now reported making good growth in Missoula county in the west. The bean crop maturing earlier than usual is now being harvested in Carbon County and harvest is due to start next week in important Yellowstone county.

Developments during the week in the livestock situation included continued shipments from the southeastern drought counties and increased movement from some south-central, central, north-central and northern counties. August rainfall, reports indicate, has helped the livestock situation in Glacier, Toole, Wheatland, Fergus, Garfield, Petroleum, the extreme northeastern and northwestern counties where shipments may be delayed if weather continues favorable. Beaverhead reports considerable drought livestock moved into that county for feed. Teton county reports considerable of their out-shipments of livestock going to the west coast.

Weekly Temperature and Precipitation Data

Station:	Temperature		Total Precipitation This week.	Sunshine Since April 1	Percent of Possib
	Highest	Lowest			
Billings	92	50	0.13	5.27	*
Bozeman	67	47	T	5.83	*
Cut Bank	38	44	2.13	6.45	*
Glasgow	93	49	0.16	4.16	*
Glendive	90	58	0.78	5.62	*
Great Falls	91	40	0.14	4.61	*
Helena	90	48	0.34	3.88	80
Kalispell	86	38	0.02	4.34	78
HELENA	86	44	T	5.54	78
Lewistown	65	39	0.38	7.26	*
Malta	89	48	0.59	3.78	*
Miles City	92	56	0.12	2.85	66
Missoula	38	42	0.00	4.77	84
Poplar	87	50	1.05	4.93	*

*No Data

The Following County Summaries of Crop Conditions for Week Ending August 22, 1936,
are furnished through the courtesy of Director J. C. Taylor, Montana State
Extension Service.

BEAVERHEAD: Rain the first part of the week, with heavy downpour in some sections; cooler. Ranges starting to burn received moisture; large second crop of alfalfa expected; wild hay crop good; pea crop spotted with some damage done to peas by heavy rains; considerable sheep and cattle from drouth area have been shipped in for feed; stock in good shape; some bunches of lambs have good percent fat end.

BIG HORN: Light showers, cooler-but no relief from drought. All small grain harvested and threshed. Valley crops fair. Non irrigated none. Sugar beets making good progress and promise to be better than first anticipated. Second crop of alfalfa all in stack. Livestock in fair condition in spite of drouth and many going to market daily. Stockmen hoping for early fall rains to help the feed situation. Over two hundred farmers now employed on WPA projects.

BLAINE: About 3/4 of an inch of rain fell in the north and central parts of the county Monday night. Small grain harvesting in the Milk River Valley, practically completed. Some threshing of wheat has been done with yields running from 20 to 35 bushels per acre on irrigated land. Range will be considerably improved due to the recent rains. Thistles making rapid growth and are being cut for hay. Livestock continues to move to market. Water holes considerably improved with recent rains.

CARBON: Most threshing completed with low yields. The harvesting of Great Northern beans is in full swing in the Clarks Fork Valley. Indications point to a shortage of oats and barley throughout the county while there is a fair supply of wheat for fall and spring seeding. Livestock in same condition.

CASCADE: No precipitation but weather has been cooler. Harvest of wheat on dryland farms is practically complete with yields varying from one to ten bushels per acre. Crops on irrigated lands show promise of fair returns. Some feed is being shipped into the county due to the high price being asked for the small supply grown locally. Livestock are continuing to move to market rapidly. Some few shipments have been made to feed areas. Few farmers are taking advantage of drought rates on feed and livestock but it is expected that more will do so in the near future.

CHOUTEAU: Continued dry hot weather throughout the week. All harvest completed with the exception of weeds and thistles which are being cut for hay. Surface and subsoil moisture very deficient and farmers anxiously awaiting rain for fall seeding. Livestock shipments continue to be heavy. Some hay being shipped into the county.

CUSTER-POWDER RIVER: Most irrigated crops are near maturity. Sugar beets yield will be fair to good. Second crop of alfalfa was fair. Some growers trying for a crop of seed and prospects are good under irrigation. No seed crop in the dry land this season which will cut the percentage of normal crop to nearly nothing. No other kind of seed produced. The 1937 hay crop will likely come from small grains as mortality of alfalfa fields may be higher than ever. Range and feed conditions unchanged. More cattle continue to be sold and shipped out. Sheep outfits holding on trying to make feeder lambs but lambs are not gaining very fast. A few fat steers and dry cows will come out of the higher timbered country in Powder River county where more old grass was left from 1935.

DANIELS: Continued dry weather; showers Wednesday. Precipitation .07 inch. Harvesting very near over. Few fields went as high as 5 bushels. Livestock in good shape. Some movement to market. WPA handling labor situation.

DAWSON: Quite warm forepart of week, but cooler last of week. .77 inch of rain fell the past 24 hours. Still quite cloudy. Possibility of last rain helping the late corn and thistles to produce feed. Some threshing reported in the county but not much grain to seal, if any. Stock continuing to move out of county. Several car loads of hay have been shipped in for some of the remaining stock.

FALLON-CARTER: Precipitation in the vicinity of Baker .33 of an inch. Northern portion of Fallon County shows a heavier precipitation. Crops and feed conditions remain the same. Showers in northern portion of Fallon county will freshen up range. In general no great change over past week. Practically 60 to 70% of all livestock moved out of both counties with some stock continuing to move. Some relief by WPA and Soil Conservation Service work.

FERGUS: Good showers helped range conditions materially the past two weeks. Water holes in most sections are filled. Rains also started grass. In some localities the hills are beginning to show a green cast. This is of considerable benefit to the sheep and cattle, particularly to the calves and lambs. Very little feed is being shipped in as the price is considered too high for folks to feed very many stock through the winter.

FLATHEAD: Still dry. The effects of some few light frosts show in the northern and eastern part of the county. Second growth of potatoes in some areas. Threshing is in full swing. Pastures and meadows are brown. Livestock situation O.K. Some demand for milk cows. Due to the dry pastures, the milk and cream supply is dropping. Dry weather and winds causing some soil blowing.

GALLATIN: Weather somewhat cooler, partly cloudy, no precipitation, two days of rather high winds. Harvesting completed in some places and winter wheat being seeded. Slight increase in amount of irrigation water available because of storms in the mountains and this being applied largely to pastures. Continued demand for hay and pasture and stockmen in the eastern part of the state have very little now available in this county.

GARFIELD-PETROLEUM: Precipitation .82 inch. General over most of Garfield and Petroleum Counties with the exception of southeastern Garfield County. Heaviest showers and general rain in Petroleum County in the Flatwillow creek. This precipitation will benefit stockmen, improving generally ranges for fall. Crops abandoned. Stock movement continues moderate, with stock in fair to good condition.

GLACIER: Rain 1.92 inches, cool. Harvest much delayed by rains. Thistles growing rapidly in uncut wheat. Range grass making as much growth as was made this spring. Late feed crops coming along in good shape and will furnish considerable food if frost is not too early. Total rain in August has been 4.4 inches or within nearly 2 inches of total for preceding 12 months. Livestock in fair to excellent condition. Recent rains will relieve immediate feed situation but considerable concentrates will have to be shipped in. No forced shipments of livestock. Shipments to reduce down to winter feed will follow later.

JUDITH BASIN: Precipitation 0.27 inch. Cooler. Grass in some cases is beginning to turn green again. Practically all of the crops are harvested with the yields varying from 1/8 bushel, mostly around 2 and 3 bushels per acre. Range conditions looking more favorable now with the recent showers and indications are that if additional rains come, the range will be much improved. Shipments of cattle continue. Surplus of livestock in the county. Feed in much demand. Many offering cattle for sale. Grasshoppers appear to be reduced from various causes and indications are that if moisture conditions are favorable for planting fall wheat there will not be much to fear from grasshoppers.

LAKE: No precipitation. Hot. No wind. Threshing and combining about 70 percent completed. Yields vary a good deal but the average somewhat below normal. Peas about all harvested. Average yield about average but about 20 bushels per acre compared with 25 in 1935. Beets doing well. Water available for them up to this week and in some cases a little later. Second cutting of alfalfa a good crop with about 2/3 of it in the stack. Third crop prospects good where first crops were cut early. Pastures dry. Livestock in good shape considering pasture condition. Some going to market but only a normal run.

LEWIS & CLARK * BROADWATER: Normal temperatures - precipitation .06 inch and below normal for the week. Good rains occurred in Southern Broadwater county. Grain harvesting and threshing progressing satisfactorily. Irrigated crops where water sufficient - generally in good condition. Dryland crops vary from nothing to fair. A considerable tonnage of concentrates will be shipped in to offset failing range grass and short hay supplies of larger operators.

MADISON AND JEFFERSON: Both counties have had several local showers the past week. In some localities cloud bursts have filled irrigation ditches with mud, flooded roads and washed out bridges. Crop conditions throughout the two counties are generally favorable, with the exception of those localities which received hail and cloudbursts. Rains have delayed haying and harvesting, but are improving the fall pasture and range. Livestock conditions remain about the same as during the previous week. A few additional sales of surplus feed have been made to outside stockmen but most of the surplus range has been sold. Some surplus hay remains for sale, but not very much grass.

MISSOULA: Warm days, cool nights, no precipitation. Excellent harvest weather. Threshing in full progress, about one half completed. Sugar beets making good growth. Small amount of third crop alfalfa yet to be cut. Livestock in good condition.

MUSSELSHELL AND GOLDEN VALLEY: Precipitation 0.50 inch with cooler weather. No winter wheat being seeded pending improved weather conditions. Livestock situation unchanged.

PARK: Numerous showers and in some cases cloudbursts were received throughout the county. A far below normal second cutting of hay will be harvested this year. Harvesting of hay and grain is well under way in most parts of the county. Rain has improved the range outlook to some extent. Drought and grasshoppers have reduced the range and second cutting of hay so that it will be necessary to reduce the normal carry over of cattle by about 25 percent. However the recent rains have improved the fall pasture.

PHILIP: Light rain covering most of county will help feed situation slightly. Moderate temperature. Threshing of grain under way in irrigated section. Yields reported run from 50 to 75% of normal. Sugar beets doing well. Bluejoint hay light. No change in the livestock situation. Thirteen carloads shipped out to pasture this week. Continued movement to market. Too early to determine winter feed needs.

PRAIRIE: Weather has been cooler this past week. Trace of rain. No crop in this county. Livestock continues to move out of the county. Livestock operators are in hopes that the cooler weather will start the thistles to growing so that they can get some thistle hay, or at least pasture.

RICHLAND: Slight precipitation during week, with most of the week cool and cloudy. Warmer last portion of week. Harvesting of grains practically completed. Corn looking good and will make considerable feed. Many feeders bargaining for sheep for feeding this winter. Also many inquiries for the purchasing of feed.

ROOSEVELT: A rain of .70 inch in the southeastern part of the county will help corn and some late gardens that have been kept alive by irrigating. Grain harvesting completed. Some farmers still putting up wheat and thistles for feed. Livestock market movement slow.

ROSEBURG: Scattered local showers during week kept down temperature, but were not sufficient to start any new growth of grass or feed. Sugar beets making normal growth. Corn under irrigation that failed to fill because of chinch bugs damage being cut for fodder. Orderly movement of livestock to market still under way. Final adjustment of livestock to winter feed supplies will probably not be completed for another thirty days.

SANDERS: Precipitation .16. in the form of a few local showers of little value. Grain threshing well advanced with good yields of winter wheat and fair yields for spring grains. Second cutting hay mostly in stack with good yields under irrigation and very poor on dry land. Potatoes and truck crops fair. Very short crop of alfalfa and clover seed. Livestock generally in very good condition. Lambs going to market with good finish. Extreme fire hazard over all forest area.

SHERIDAN: Considerably cooler latter part of week, frost reported in parts of county; light sprinkle of rain. Harvest still in progress, most farmers getting seed back. Some trouble from heating due to heavy thistle growth after July rain. Corn harvest in progress. Will assure a fair amount of feed. Grazing on abandoned crops and making excellent gains in most sections of county. Surplus labor absorbed by WPA. on dams and road work. Grasshoppers plentiful in many areas of county.

STILLWATER: Weather considerably cooler for past week. Several good showers during the week. Some harvesting yet to be done in irrigated sections. Second cutting of alfalfa going to make a fair yield. Prospects of getting a third cutting good in lower valley. Grass starting up again in some sections following showers of past week. Livestock still moving out of county. Range conditions not materially improved to date.

SWEETGRASS: Precipitation - 1.23 inch, which is starting the grass for fall pasture. No change in crop conditions. The moisture received this week is very beneficial to the second cutting of alfalfa. Livestock are still on the Forest Reserve and from all reports are doing well. All livestock on the lower ranges have been quite generally marketed or moved to fall and winter pasture in other parts of the state. Labor situation is about normal, due to WPA projects now under way. Grasshopper infestation is fairly eliminated. Some infestation in parts of the county yet.

TETON: Precipitation 0.39 inch for week and close to an inch in the northern part of the county. Rains stopped threshing in some small areas. Harvesting of crops nearing an end with lots of fields running from 4 to 5 bushels and others around 7 and 8 bushels. Livestock still being moved to market. Considerable amount going to the west coast.

TOOLE: Heavy rains throughout most of county early part of the week. Weather cool. All harvesting completed. Yields 20% of normal on an average throughout the county. Recent rains have filled most water holes and grass is again starting out. This relieves the cattle situation for a time and shipments will be delayed.

VALLEY: Precipitation, 0.25 inch for week. Harvesting is completed with yields ranging from nothing to a maximum of 8 bushels in some favored localities but average for that which was harvested is about $1\frac{1}{2}$ bushels. Much of the grain was cut for hay. Cutting of blue joint hay is completed and also second cutting of alfalfa. Shipment of stock is becoming heavier each week. Most of the stock is cattle and horses going to market. Very few sheep have been moved out of the county to date. Approximately 500 men are out working on Resettlement dams. WPA projects are just commencing and farmers are working for any and all kinds of work so as to obtain money to see them through the winter.

WHEATLAND: Rain fell generally over the county this week. Weather somewhat cooler. Due to the rains the past ten days the range ins somewhat improved in the county and grass is beginning to grow.

WIBAUX: Precipitation in nearly all parts of the county, with considerable hail. Rainfall at Wibaux .70 inch. Some parts reporting $1\frac{1}{2}$ inches. Rain improved stock water conditions. Rain may also grow thistles and increase winter feed supply. With present price of hay very few cattle can be kept over winter. The cattle left on farms are still in good condition. Butterfat production has been greatly reduced because of selling cows and short pastures and ranges and no hay. Farmers which were getting as high as \$30.00 per month income from butterfat are not getting any income now. Sheepmen are also in a bad position and some are trying to liquidate. Ver few pigs will be fed out. Most of the pigs have been sold west as feeders.

YELLOWSTONE: Unsettled, cooler, with showers. .40 of an inch precipitation at Billings. Scattered showers received during the past week of benefit to pastures and range grass in some areas, but more moisture needed to insure growth. In non-irrigated districts, little winter wheat planted but farmers largely are awaiting additional moisture. In irrigated districts, harvest of beans started with indications that harvest will be in full swing next week. Some early corn is also being harvested and some late second cutting of alfalfa. Some improvement in range districts. Stock water supply improved.



UNITED STATES DEPARTMENT OF AGRICULTURE
Weather Bureau — Bureau of Agricultural Economics

REPORT OF WEATHER AND CROP CONDITIONS IN MONTANA
For the Week Ending Tuesday, August 25, 1936.

Issued jointly by the Division of Crop and Livestock Estimates and the Weather Bureau.
Offices: Fourth Floor, Federal Office Building, Helena, Montana.

Rather general showers and much cooler weather marked the week ending August 25. Temperatures dropped low enough in extreme northwestern Montana to cause light frosts in a few places. Rainfall, which was heavy at spots throughout the northern half of the state and a few central localities, was very light in western Montana and in most of the southern half of the state. Much of the drought area received little, if any benefits, due both to the lateness and light amounts of rainfall. With the seeding season for fall sown grains approaching, farmers in the principal winter grain areas are now hoping for further moisture to put soils in shape for fall seeding.

Harvesting of small grain crops has made rapid progress due both to the light crops and premature ripening. Irrigated grain crops are now being cut in most sections of the state. Yields on irrigated grain crops already harvested are reported very satisfactory, but non-irrigated yields are still ranging from complete failures to very low yields on seeded acreages. The short production of feed grain crops on non-irrigated lands is expected to result in considerable of such feed being shipped into many of the drought counties.

Hay crops vary widely even in irrigated areas where considerable winter killing of alfalfa and spotted yields reduced first cuttings. Second crops of alfalfa vary from very poor in Park county to very good in Lake county. Prospects for third cuttings are now reported good in Lake and Missoula counties and a few scattered areas in the irrigated sections east of the mountains. Considerable roughage in the form of weeds and thistles is being put up in many places for winter feed.

Potatoes in the important Flathead valley are showing second growth in some fields and also spotted frost damage. The harvest of the pea crop is generally nearing completion. Sugar beets have improved in Big Horn county in the east and are now reported making good growth in Missoula county in the west. The bean crop maturing earlier than usual is now being harvested in Carbon County and harvest is due to start next week in important Yellowstone county.

Developments during the week in the livestock situation included continued shipments from the southeastern drought counties and increased movement from some south-central, central, north-central and northern counties. August rainfall, reports indicate, has helped the livestock situation in Glacier, Toole, Wheatland, Fergus, Garfield, Petroleum, the extreme northeastern and northwestern counties where shipments may be delayed if weather continues favorable. Beaverhead reports considerable drought livestock moved into that county for feed. Teton county reports considerable of their out-shipments of livestock going to the west coast.

Weekly Temperature and Precipitation Data

Station:	Temperature		Total Precipitation This week.	Sunshine Since April 1	Percent of Possib.
	Highest	Lowest			
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Helena	90	48	0.34	3.88	80
Kalispell	86	38	0.02	4.34	78
LEWISTOWN	86	44	T	5.54	78
Lewistown	85	39	0.38	7.26	*
Malta	89	48	0.59	3.76	*
Miles City	92	56	0.12	2.85	66
Missoula	88	42	0.00	4.77	84
Poplar	87	50	1.05	4.93	*

*No Data

The Following County Summaries of Crop Conditions for Week Ending August 22, 1936, are furnished through the courtesy of Director J. C. Taylor, Montana State Extension Service.

BEAVERHEAD: Rain the first part of the week, with heavy downpour in some sections; cooler. Ranges starting to burn received moisture; large second crop of alfalfa expected; wild hay crop good; pea crop spotted with some damage done to peas by heavy rains; considerable sheep and cattle from drouth area have been shipped in for feed; stock in good shape; some bunches of lambs have good percent fat end.

BIG HORN: Light showers, cooler-but no relief from drought. All small grain harvested and threshed. Valley crops fair. Non irrigated none. Sugar beets making good progress and promise to be better than first anticipated. Second crop of alfalfa all in stack. Livestock in fair condition in spite of drouth and many going to market daily. Stockmen hoping for early fall rains to help the feed situation. Over two hundred farmers now employed on WPA projects.

BLAINE: About 3/4 of an inch of rain fell in the north and central parts of the county Monday night. Small grain harvesting in the Milk River Valley, practically completed. Some threshing of wheat has been done with yields running from 20 to 35 bushels per acre on irrigated land. Range will be considerably improved due to the recent rains. Thistles making rapid growth and are being cut for hay. Livestock continues to move to market. Water holes considerably improved with recent rains.

CARBON: Most threshing completed with low yields. The harvesting of Great Northern beans is in full swing in the Clarks Fork Valley. Indications point to a shortage of oats and barley throughout the county while there is a fair supply of wheat for fall and spring seeding. Livestock in same condition.

CASCADE: No precipitation but weather has been cooler. Harvest of wheat on dryland farms is practically complete with yields varying from one to ten bushels per acre. Crops on irrigated lands show promise of fair returns. Some feed is being shipped into the county due to the high price being asked for the small supply grown locally. Livestock are continuing to move to market rapidly. Some few shipments have been made to feed areas. Few farmers are taking advantage of drought rates on feed and livestock but it is expected that more will do so in the near future.

CHOUTEAU: Continued dry hot weather throughout the week. All harvest completed with the exception of weeds and thistles which are being cut for hay. Surface and subsoil moisture very deficient and farmers anxiously awaiting rain for fall seeding. Livestock shipments continue to be heavy. Some hay being shipped into the county.

CUSTER-POWDER RIVER: Most irrigated crops are near maturity. Sugar beets yield will be fair to good. Second crop of alfalfa was fair. Some growers trying for a crop of seed and prospects are good under irrigation. No seed crop in the dry land this season which will cut the percentage of normal crop to nearly nothing. No other kind of seed produced. The 1937 hay crop will likely come from small grains as mortality of alfalfa fields may be higher than ever. Range and feed conditions unchanged. More cattle continue to be sold and shipped out. Sheep outfits holding on trying to make feeder lambs but lambs are not gaining very fast. A few fat steers and dry cows will come out of the higher timbered country in Powder River county where more old grass was left from 1935.

DANIELS: Continued dry weather; showers Wednesday. Precipitation .07 inch. Harvesting very near over. Few fields went as high as 5 bushels. Livestock in good shape. Some movement to market. WPA handling labor situation.

DAWN: Quite warm forepart of week, but cooler last of week. .77 inch of rain fell the past 24 hours. Still quite cloudy. Possibility of last rain helping the late corn and thistles to produce feed. Some threshing reported in the county but not much grain to seal, if any. Stock continuing to move out of county. Several car loads of hay have been shipped in for some of the remaining stock.

FALLON-CARTER: Precipitation in the vicinity of Baker .33 of an inch. Northern portion of Fallon County shows a heavier precipitation. Crops and feed conditions remain the same. Showers in northern portion of Fallon county will freshen up range. In general no great change over past week. Practically 60 to 70% of all livestock moved out of both counties with some stock continuing to move. Some relief by WPA and Soil Conservation Service work.

FERGUS: Good showers helped range conditions materially the past two weeks. Water holes in most sections are filled. Rains also started grass. In some localities the hills are beginning to show a green cast. This is of considerable benefit to the sheep and cattle, particularly to the calves and lambs. Very little feed is being shipped in as the price is considered too high for folks to feed very many stock through the winter.

FLATHEAD: Still dry. The effects of some few light frosts show in the northern and eastern part of the county. Second growth of potatoes in some areas. Threshing is in full swing. Pastures and meadows are brown. Livestock situation O.K. Some demand for milk cows. Due to the dry pastures, the milk and cream supply is dropping. Dry weather and winds causing some soil blowing.

GALLATIN: Weather somewhat cooler, partly cloudy, no precipitation, two days of rather high winds. Harvesting completed in some places and winter wheat being seeded. Slight increase in amount of irrigation water available because of storms in the mountains and this being applied largely to pastures. Continued demand for hay and pasture and stockmen in the eastern part of the state have very little now available in this county.

GARFIELD-PETROLEUM: Precipitation .82 inch. General over most of Garfield and Petroleum Counties with the exception of southeastern Garfield County. Heaviest showers and general rain in Petroleum County north of Flatwillow creek. This precipitation will benefit stockmen, improving generally ranges for fall. Crops abandoned. Stock movement continues moderate, with stock in fair to good condition.

GLACIER: Rain 1.92 inches, cool. Harvest much delayed by rains. Thistles growing rapidly in uncut wheat. Range grass making as much growth as was made this spring. Late feed crops coming along in good shape and will furnish considerable feed if frost is not too early. Total rain in August has been 4.4 inches or within nearly 2 inches of total for preceding 12 months. Livestock in fair to excellent condition. Recent rains will relieve immediate feed situation but considerable concentrates will have to be shipped in. No forced shipments of livestock. Shipments to reduce down to winter feed will follow later.

JUDITH BASIN: Precipitation 0.27 inch. Cooler. Grass in some cases is beginning to turn green again. Practically all of the crops are harvested with the yields varying from 1/8 bushel, mostly around 2 and 3 bushels per acre. Range conditions looking more favorable now with the recent showers and indications are that if additional rains come, the range will be much improved. Shipments of cattle continue. Surplus of livestock in the county. Feed in much demand. Many offering cattle for sale. Grasshoppers appear to be reduced from various causes and indications are that if moisture conditions are favorable for planting fall wheat there will not be much to fear from grasshoppers.

LAKE: No precipitation. Hot. No wind. Threshing and combining about 70 percent completed. Yields vary a good deal but the average somewhat below normal. Peas about all harvested. Average yield about average but about 20 bushels per acre compared with 25 in 1935. Beets doing well. Water available for them up to this week and in some cases a little later. Second cutting of alfalfa a good crop with about 2/3 of it in the stack. Third crop prospects good where first crops were cut early. Pastures dry. Livestock in good shape considering pasture condition. Some going to market but only a normal run.

LEWIS & CLARK * BROADWATER: Normal temperatures - precipitation .06 inch and below normal for the week. Good rains occurred in Southern Broadwater county. Grain harvesting and threshing progressing satisfactorily. Irrigated crops where water sufficient - generally in good condition. Dryland crops vary from nothing to fair. A considerable tonnage of concentrates will be shipped in to offset failing range grass and short hay supplies of larger operators.

MADISON AND JEFFERSON: Both counties have had several local showers the past week. In some localities cloud bursts have filled irrigation ditches with mud, flooded roads and washed out bridges. Crop conditions throughout the two counties are generally favorable, with the exception of those localities which received hail and cloudbursts. Rains have delayed haying and harvesting, but are improving the fall pasture and range. Livestock conditions remain about the same as during the previous week. A few additional sales of surplus feed have been made to outside stockmen but most of the surplus range has been sold. Some surplus hay remains for sale, but not very much grass.

MISSOULA: Warm days, cool nights, no precipitation. Excellent harvest weather. Threshing in full progress, about one half completed. Sugar beets making good growth. Small amount of third crop alfalfa yet to be cut. Livestock in good condition.

MUSSELSHELL AND GOLDEN VALLEY: Precipitation 0.50 inch with cooler weather. No winter wheat being seeded pending improved weather conditions. Livestock situation unchanged.

PARK: Numerous showers and in some cases cloudbursts were received throughout the county. A far below normal second cutting of hay will be harvested this year. Harvesting of hay and grain is well under way in most parts of the county. Rain has improved the range outlook to some extent. Drought and grasshoppers have reduced the range and second cutting of hay so that it will be necessary to reduce the normal carry over of cattle by about 25 percent. However the recent rains have improved the fall pasture.

PHILLIP: Light rain covering most of county will help feed situation slightly. Moderate temperature. Threshing of grain under way in irrigated section. Yields reported run from 50 to 75% of normal. Sugar beets doing well. Bluejoint hay light. No change in the livestock situation. Thirteen carloads shipped out to pasture this week. Continued movement to market. Too early to determine winter feed needs.

PRAIRIE: Weather has been cooler this past week. Trace of rain. No crop in this county. Livestock continues to move out of the county. Livestock operators are in hopes that the cooler weather will start the thistles to growing so that they can get some thistle hay, or at least pasture.

RICHLAND: Slight precipitation during week, with most of the week cool and cloudy. Warmer last portion of week. Harvesting of grains practically completed. Corn looking good and will make considerable feed. Many feeders bargaining for sheep for feeding this winter. Also many inquiries for the purchasing of feed.

ROOSEVELT: A rain of .70 inch in the southeastern part of the county will help corn and some late gardens that have been kept alive by irrigating. Grain harvesting completed. Some farmers still putting up wheat and thistles for feed. Livestock market movement slow.

ROSEBUD: Scattered local showers during week kept down temperature, but were not sufficient to start any new growth of grass or feed. Sugar beets making normal growth. Corn under irrigation that failed to fill because of chinch bugs damage being cut for fodder. Orderly movement of livestock to market still under way. Final adjustment of livestock to winter feed supplies will probably not be completed for another thirty days.

SALDERS: Precipitation .16.in the form of a few local showers of little value. Grain threshing well advanced with good yields of winter wheat and fair yields for spring grains. Second cutting hay mostly in stack with good yields under irrigation and very poor on dry land. Potatoes and truck crops fair. Very short crop of alfalfa and clover seed. Livestock generally in very good condition. Lambs going to market with good finish. Extreme fire hazard over all forest area.

SHERIDAN: Considerably cooler latter part of week, frost reported in parts of county; light sprinkle of rain. Harvest still in progress, most farmers getting seed back. Some trouble from heating due to heavy thistle growth after July rain. Corn harvest in progress. Will assure a fair amount of feed. Grazing on abandoned crops and making excellent gains in most sections of county. Surplus labor absorbed by WPA. on dams and road work. Grasshoppers plentiful in many areas of county.

STILLWATER: Weather considerably cooler for past week. Several good showers during the week. Some harvesting yet to be done in irrigated sections. Second cutting of alfalfa going to make a fair yield. Prospects of getting a third cutting good in lower valley. Grass starting up again in some sections following showers of past week. Livestock still moving out of county. Range conditions not materially improved to date.

SWEETGRASS: Precipitation - 1.23 inch, which is starting the grass for fall pasture. No change in crop conditions. The moisture received this week is very beneficial to the second cutting of alfalfa. Livestock are still on the Forest Reserve and from all reports are doing well. All livestock on the lower ranges have been quite generally marketed or moved to fall and winter pasture in other parts of the state. Labor situation is about normal, due to WPA projects now under way. Grasshopper infestation is fairly eliminated. Some infestation in parts of the county yet.

TILTON: Precipitation 0.39 inch for week and close to an inch in the northern part of the county. Rains stopped threshing in some small areas. Harvesting of crops nearing an end with lots of fields running from 4 to 5 bushels and others around 7 and 8 bushels. Livestock still being moved to market. Considerable amount going to the west coast.

TOOLE: Heavy rains throughout most of county early part of the week. Weather cool. All harvesting completed. Yields 20% of normal on an average throughout the county. Recent rains have filled most water holes and grass is again starting out. This relieves the cattle situation for a time and shipments will be delayed.

VALLEY: Precipitation, 0.25 inch for week. Harvesting is completed with yields ranging from nothing to a maximum of 8 bushels in some favored localities but average for that which was harvested is about $1\frac{1}{2}$ bushels. Much of the grain was cut for hay. Cutting of blue joint hay is completed and also second cutting of alfalfa. Shipment of stock is becoming heavier each week. Most of the stock is cattle and horses going to market. Very few sheep have been moved out of the county to date. Approximately 500 men are out working on Resettlement dams. WPA projects are just commencing and farmers are working for any and all kinds of work so as to obtain money to see them through the winter.

WHEATLAND: Rain fell generally over the county this week. Weather somewhat cooler. Due to the rains the past ten days the range ins somewhat improved in the county and grass is beginning to grow.

WIBAUX: Precipitation in nearly all parts of the county, with considerable hail. Rainfall at Wibaux .70 inch. Some parts reporting $1\frac{1}{2}$ inches. Rain improved stock water conditions. Rain may also grow thistles and increase winter feed supply. With present price of hay very few cattle can be kept over winter. The cattle left on farms are still in good condition. Butterfat production has been greatly reduced because of selling cows and short pastures and ranges and no hay. Farmers which were getting as high as \$60.00 per month income from butterfat are not getting any income now. Sheepmen are also in a bad position and some are trying to liquidate. Very few pigs will be fed out. Most of the pigs have been sold west as feeders.

YELLOWSTONE: Unsettled, cooler, with showers. .40 of an inch precipitation at Billings. Scattered showers received during the past week of benefit to pastures and range grass in some areas, but more moisture needed to insure growth. In non-irrigated districts, little winter wheat planted but farmers largely are awaiting additional moisture. In irrigated districts, harvest of beans started with indications that harvest will be in full swing next week. Some early corn is also being harvested and some late second cutting of alfalfa. Some improvement in range districts. Stock water supply improved.

